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04/07/2011

L&T SWITCHGEAR
SAFE & SURE

Maximum Retail Prices
for Electrical Standard Products

LARSEN & TOUBRO

U-POWER OMEGA AIR CIRCUIT BREAKERS

- Range from 400A - 6300A in three optimized frames sizes
- Upgradable modular protection & control unit
- Optimally compact with generous termination area
- Energy saving voltmetric releases
- Unmatched safety & security

C-line CHANGEOVER SWITCHES

- Range from 125A - 1000A
- Staggered terminals
- Dual shaft positions
- Flip - able handle for easy operation
- Live parts shrouded to avoid accidental contact
- Conversion to fused version at site

SUPERNOVA™ MOG MOTOR PROTECTION CIRCUIT BREAKERS

- Range from 0.16A - 63A
- High breaking capacity
- Compact
- Front mounting alarm & auxiliary contact

SUPERNOVA™ MO CONTACTORS

- Range from 9A - 110A in three frame sizes
- Compact
- Completely shrouded
- Low VA consumption
- Lug less termination possible
- Common accessories throughout the range

LTXL ULTRA HEAVY DUTY CAPACITORS

- Range from 5 kVAr - 50 kVAr
- Long life expectancy (upto 300000 hrs)
- High inrush current withstand capability (upto 500 times I_R)
- Low power loss (< 0.35 W/kVAr)
- Lower operating temperature

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Please contact the nearest L&T branch office for Prices of the following products :

- Distribution System Components such as 6kA, 10kA MCBs, ELCB etc.
- AC Variable Frequency Drives
- AC Servo Motors & Drives
- 3 Phase squirrel cage induction motor
- Motion Control Solutions
- Wires, Cables and Flat Cables
- Busbar Trunking Systems
- Building Automation Products
- Home Automation Products
- Rotary Switches
- Modular Remote Control Units
- Timing Devices
- Cable Ducts & LB Series Switches

AIR CIRCUIT BREAKERS - C-POWER

C-POWER S1 range of Air Circuit Breaker conform to IS/IEC 60947-2 & IEC 60947-2
Rating - 630A to 3200A
Version - 3 Pole / 4 Pole, Manually/Electrically operated Draw-out type
Protection Release 1) Thermal-Magnetic : Type DN1 - LS + option of earth fault protection
2) Microprocessor based : Type SR18 - LSI protection
3) Microprocessor based : Type SR18G - LSIG protection
4) Microprocessor based : Type SR21i - LSIG protection + Zone Selective Interlocking
For technical details, please refer product catalogue

C-POWER S1 3 & 4 Pole Draw-Out ACBs

Rating	Breaking Capacity Icu=Ics =Icw (1 sec)	Version	Microprocessor Based SR18G		Microprocessor Based SR18G		Thermal-Magnetic DN1		Thermal-Magnetic DN1	
			3 Pole Draw-out		4 Pole Draw-out		3 Pole Draw-out		4 Pole Draw-out	
			Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit
630A	50kA	MDO	**SL96041**	**114845**	**SL96061**	**150380**	**SL95331**	**98845**	**SL95351**	**138380**
		EDO	**SL96051**	**149845**	**SL96071**	**185380**	**SL95341**	**133845**	**SL95361**	**173380**
800A	50kA	MDO	**SL96042**	**114845**	**SL96062**	**150380**	**SL95332**	**98845**	**SL95352**	**138380**
		EDO	**SL96052**	**149845**	**SL96072**	**185380**	**SL95342**	**133845**	**SL95362**	**173380**
1000A	50kA	MDO	**SL96043**	**122055**	**SL96063**	**158620**	**SL95333**	**106055**	**SL95353**	**146620**
		EDO	**SL96053**	**157055**	**SL96073**	**193620**	**SL95343**	**141055**	**SL95363**	**181620**
1250A	50kA	MDO	**SL96044**	**150895**	**SL96064**	**183340**	**SL95334**	**134895**	**SL95354**	**171340**
		EDO	**SL96054**	**185895**	**SL96074**	**218340**	**SL95344**	**169895**	**SL95364**	**206340**
1600A	50kA	MDO	**SL96045**	**163770**	**SL96065**	**199820**	**SL95335**	**147770**	**SL95355**	**187820**
		EDO	**SL96055**	**198770**	**SL96075**	**234820**	**SL95345**	**182770**	**SL95365**	**222820**
2000A	50kA	MDO	**SL96046**	**188490**	**SL96066**	**242050**	**SL95336**	**172490**	**SL95356**	**230050**
		EDO	**SL96056**	**223490**	**SL96076**	**277050**	**SL95346**	**207490**	**SL95366**	**265050**
2500A	60kA	MDO	**SL96047**	**226600**	**SL96067**	**288400**	**SL95337**	**210600**	**SL95357**	**276400**
		EDO	**SL96057**	**261600**	**SL96077**	**323400**	**SL95347**	**245600**	**SL95367**	**311400**
3200A	60kA	MDO	**SL96048**	**288400**	**SL96068**	**353290**	**SL95338**	**272400**	**SL95358**	**341290**
		EDO	**SL96058**	**323400**	**SL96078**	**388290**	**SL95348**	**307400**	**SL95368**	**376290**

Following are the M.R.P. changes for product customization w.r.t. SR18G ACB M.R.P.		M.R.P.(₹) Per Unit
Bus - Coupler (w/o protection)	Reduce	**35000**
Microprocessor based SR18 (LSI)	Reduce	**4000**
Microprocessor based SR21i (LSIG + ZSI)	Add	**12000**

The above M.R.P.s. of **C-POWER S1** ACBs, includes 2NO+2NC Aux contact for MDO & 6NO+6NC Aux contact for EDO breakers, Safety shutter assembly, Racking handle, Racking interlock, Door sealing frame, Push-button cover & Rating Error preventor.

EDO version includes 240V ac Shunt trip coil, Closing coil and Motor for electrical charging.

Note : 1 NO Aux contact in MDO & 2NO+2NC in EDO breakers will be pre-wired with accessories mounted in breaker.
In electrically operated with DN1 release, either earth fault or undervoltage protection can be used

CN-CS…E Range 3 Pole Manual Fixed

with Thermal-Magnetic Release Type DN1				
Rating	Breaking Capacity Icu=Ics =Icw (1 sec)	Version	Cat. No.	M.R.P. (₹) Per Unit
400A	50kA	3P MF	**SL93291OOOO**	**44500**
630A	50kA	3P MF	**SL93292OOOO**	**44900**
800A	50kA	3P MF	**SL93293OOOO**	**45350**
1000A	50kA	3P MF	**SL93294OOOA**	**48700**
1250A	50kA	3P MF	**SL93295OOOO**	**60900**
1600A	50kA	3P MF	**SL93296OOOO**	**70400**
2000A	50kA	3P MF	**SL93297OOOO**	**80000**

AIR CIRCUIT BREAKERS - C-POWER

C-POWER range of Air Circuit Breaker conform to IS/IEC 60947-2 & IEC 60947-2
Rating - 800A to 6300A
Version - 3 Pole / 4 Pole, Manually/Electrically operated Fixed & Draw-out type
Protection Release
1) Thermal-Magnetic : Type DN1 - LS + option of earth fault protection
2) Microprocessor based : Type SR18 - LSI protection
3) Microprocessor based : Type SR18G - LSIG protection
4) Microprocessor based : Type SR21i - LSIG protection + Zone Selective Interlocking
5) Microprocessor based : Type SR71 - Advance Microcontroller based with option of communication & metering
For technical details, please refer product catalogue

C-POWER 3 & 4 Pole Draw-out ACBs

Rating	Breaking Capacity Icu=Ics =Icw (1 sec)	Version	Microprocessor Based SR18G 3 Pole Draw-out		Microprocessor Based SR18G 4 Pole Draw-out		Thermal-Magnetic DN1 3 Pole Draw-out		Thermal-Magnetic DN1 4 Pole Draw-out	
			Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit
800A	50kA*	MDO	**ST35541**	**139700**	**ST35561**	**178200**	**SL93061**	**123700**	**ST25031**	**162200**
		EDO	**ST35551**	**174700**	**ST35571**	**213200**	**#**	**#**	**#**	**#**
1000A	50kA*	MDO	**ST35542**	**149600**	**ST35562**	**189200**	**SL93062**	**133600**	**ST25032**	**173200**
		EDO	**ST35552**	**184600**	**ST35572**	**224200**	**#**	**#**	**#**	**#**
1250A	50kA*	MDO	**ST35543**	**177100**	**ST35563**	**211200**	**SL93063**	**161100**	**ST25033**	**195200**
		EDO	**ST35553**	**212100**	**ST35573**	**246200**	**#**	**#**	**#**	**#**
1600A	50kA*	MDO	**ST35544**	**183700**	**ST35564**	**231000**	**ST30414**	**167700**	**ST25034**	**215000**
		EDO	**ST35554**	**218700**	**ST35574**	**266000**	**#**	**#**	**#**	**#**
2000A	55kA*	MDO	**ST35545**	**218360**	**ST35565**	**278200**	**SL93065**	**202360**	**ST25035**	**262200**
		EDO	**ST35555**	**253360**	**ST35575**	**313200**	**#**	**#**	**#**	**#**
2500A	60kA*	MDO	**ST35546**	**254400**	**ST35566**	**325280**	**SL93066**	**238400**	**ST25036**	**309280**
		EDO	**ST35556**	**289400**	**ST35576**	**360280**	**#**	**#**	**#**	**#**
3200A	75kA*	MDO (H0)	**ST35547**	**328600**	**ST35567**	**412560**	**SL93459**	**312600**	**SL93479**	**396560**
		EDO (H0)	**ST35557**	**363600**	**ST35577**	**447560**	**#**	**#**	**#**	**#**
4000A	75kA*	MDO (H0)	**ST35548**	**397500**	**ST35568**	**496800**	**SL93460**	**381500**	**SL93480**	**480800**
		EDO (H0)	**ST35558**	**432500**	**ST35578**	**531800**	**#**	**#**	**#**	**#**
5000A	95kA	MDO/EDO	**#**	**#**	**#**	**#**	**#**	**#**	**#**	**#**
6300A	95kA	MDO/EDO	**#**	**#**	**#**	**#**	**#**	**#**	**#**	**#**

*** For higher breaking capacity breakers please contact your nearest branch office**

C-POWER 3 Pole Manual Fixed## ACBs (4 Pole Manual Fixed## ACBs on request)

Rating	Breaking Capacity Icu=Ics =Icw (1 sec)	Version	Microprocessor Based SR18G 3 Pole		Thermal-Magnetic DN1 3 Pole	
			Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit
800A	50kA*	MF	**SL97631**	**113500**	**SL93001**	**66500**
1000A	50kA*	MF	**SL97632**	**117000**	**SL93002**	**70000**
1250A	50kA*	MF	**SL97633**	**142000**	**SL93003**	**95000**
1600A	50kA*	MF	**SL97634**	**145000**	**SL93004**	**98000**
2000A	55kA*	MF	**SL97635**	**155000**	**SL93005**	**108000**
2500A	60kA*	MF	**SL97636**	**173000**	**SL93006**	**126000**
3200A	70kA	MF	**#**	**#**	**#**	**#**
4000A	70kA	MF	**#**	**#**	**#**	**#**

*** For higher breaking capacity breakers please contact your nearest branch office**

Following are the M.R.P. changes for product customization w.r.t. SR18G M.R.P.		M.R.P.(₹) Per Unit
Bus-Coupler (w/o protection)	Reduce	**35000**
Microprocessor based SR18 (LSI)	Reduce	**4000**
Microprocessor based SR21i (LSIG + ZSI)	Add	**12000**
Microprocessor based SR71 (LSIGN + Advance protection)	Add	**On Request**
Communication Module for SR71 release	SL94698	
Metering Module for SR71 release	SL94699	

For Draw-Out ACB - The above M.R.P.s. , includes 6NO+6NC Aux contact, Safety shutter assembly, Racking handle, Racking interlock, Door sealing frame, Push-button cover & Rating Error preventor.
For Fixed ACB - The above M.R.P.s. , includes 6NO+6NC Aux contact, Door sealing frame & Push-button cover. EDO version includes 240V ac Shunt trip coil, Closing coil and Motor for electrical charging.
Note : 1 NO Aux contact in manual version & 2NO+2NC in electrical version breakers will be pre-wired with accessories mounted in breaker. In electrically operated with DN1 release, either earth fault or undervoltage protection can be used

 # Available on "Made to order " basis
Electrical Fixed type breaker available on "Made to order" basis.

Accessories (Common for C-POWER Family)

Description	Cat. No.	M.R.P. (₹) Per Unit
AN1 Remote Annunciation Module for SR18G/SR21i	**SL94654OOOO**	**4350**
6 way Secondary isolating contact	**SL92701OOOO**	**1600**
Microswitch for voltmetric releases (2) each	**SL92703OOOO**	**1750**
Microswitch for common indication of O/L & S/C (3) each	**SL92704OOOO**	**1750**
Microswitch for separate indication of O/L & S/C (3) each	**SL92705OOOO**	**3000**
Service position microswitch - Right (2)	**SL93142OOOO**	**1200**
Service position microswitch - Left (2)	**SL93143OOOO**	**1200**
Test or isolated position microswitch - Right (2)	**SL93144OOOO**	**1200**
Test or isolated position microswitch - Left (2)	**SL93145OOOO**	**1200**
Lockable Trip Push Button (LTPB)		
Type AA	**SL93148OOOA**	**2200**
Type BB	**SL93148OOOB**	**2200**
Type CC	**SL93148OOOC**	**2200**
Type DD	**SL93148OOOD**	**2200**
Locking of ACB in Isolated position (LIP)		
Type AA	**SL93146OOOA**	**2200**
Type BB	**SL93146OOOB**	**2200**
Type CC	**SL93146OOOC**	**2200**
Type DD	**SL93146OOOD**	**2200**
Locking of ACB in Any position (LAP)		
Type A	**SL93147OOOA**	**2200**
Type B	**SL93147OOOB**	**2200**
Type C	**SL93147OOOC**	**2200**
Type D	**SL93147OOOD**	**2200**
Racking Preventor		
Type A	**SL93149OOOA**	**4000**
Type B	**SL93149OOOB**	**4000**
Type C	**SL93149OOOB**	**4000**
Type D	**SL93149OOOO**	**4000**
Door Interlock	**SL93150OOOO**	**2200**
Lockable Trip Push Button kit L, M, N, LM, MN	**SL91936OOOO**	**11000**
Lockable Trip Push Button kit (A to Z)	**ST28895OOOO**	**57000**
Lockable Trip Push Button kit (A to P)	**ST28730OOOO**	**35000**

Description	Cat. No.	M.R.P. (₹) Per Unit
Shunt Release		
Type EA : 24/48V DC	**SL92718O4OO**	**2200**
Type EA : 110V DC	**SL92718O1OO**	**2200**
Type EA : 220V DC	**SL92718O2OO**	**2200**
Type EA1 : 110V DC	**SL92718OAOO**	**2200**
Type EA1 : 240V AC	**SL92718OBOO**	**2200**
Type EA1 : 415V AC	**SL92718ODOO**	**2000**
Under Voltage Release		
Type MV : 240V AC	**SL92720BOOO**	**3200**
Type MV : 415V AC	**SL92720DOOO**	**3200**
Earth Fault Release (for DN1)		
Type EF1 (10%, 20% Ir)	**SL91340OOOO**	**2200**
Type EF2 (30%, 40%, 50% Ir)	**SL91341OOOO**	**2200**
Motor for 630A to 6300A		
110V DC	**SL00346OOOO**	**15800**
220V DC	**SL00347OOOO**	**15800**
110V AC	**SL00124OOOO**	**15800**
240V AC	**SL00315OOOO**	**15800**
Protection Releases		
Microprocessor based Type SR71	**Available on Request**	
Microprocessor based Type SR21i	**SL93960OOOO**	**38000**
Microprocessor based Type SR18G	**SL93959OOOO**	**26000**
Microprocessor based Type SR18	**SL93958OOOO**	**22000**
Thermal-Mangetic Release Type DN1	**SL93152OOOO**	**10000**

Note :
a. The Numerical in brackets, against various accessories indicate the SICs required for wiring purpose in Draw-Out breakers
b. Shunt release requires one set of auxiliary contacts
c. Maximum 24 SICs can be fitted on an ACB. In Electrical ACBs 5 SICs are prewired for control circuit purpose

AIR CIRCUIT BREAKERS - C-POWER

Spares

Description	Qty.	Cat. No.	M.R.P. (₹) Per Unit
Auxiliary Contact Block - 800-2500C, 3200 & 4000 H0			
2 NO + 2 NC	**1**	**SL92765**	**1650**
6 NO + 6 NC	**1**	**SL92767**	**2700**

Safety Shutter Assembly		
For 800-1600 C & 630-2000 S1	**SL91833**	**900**
For 2000 C & 2500 C / S1 & 3200 S1	**SL92811**	**1050**
For 3200 H0 / 4000 H0 #	**SL91833**	**900**

2 pole in each phase

Description	Cat. No.	Qty. per Kit	M.R.P. (₹) Per Kit	No. of Kits for 3 pole ACB
Arcing contacts - Fixed				
For 630 to 1250A S1	**SL93890**	3	**2500**	1 kit
For 800 to 1600A C & 1600A S1	**SL93891**	3	**2500**	1 kit
For 2000A S1	**SL93040**	3	**3450**	1 kit
For 2000A C & 2500A S1	**SL90631**	1	**350**	12 kits
For 2500A C & 3200A S1	**SL90631**	1	**350**	15 kits
For 3200/4000A H0	**SL93040**	3	**3450**	2 kits
Arcing contacts - Moving				
For 800 to 1600A C/S1 & 2000A S1	**SL93892**	9	**2500**	1 kit
For 2000 & 2500A C	**SL90629**	1	**350**	12 kits
For 3200/4000 H0 & 2500/3200A S1	**SL93892**	9	**2500**	3 kits

Current Transformers (CTs)

Description		For SR18 / SR18G / SR21i		DN1 / SR15G	
		Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit
630 S1	For Drawout Type	**ST37495**	**3100**	**SL00374**	**3100**
800 S1	For Drawout Type	**SL90561**	**3100**	**SL90593**	**3100**
800 C	For Fixed Type with 400/500A taps	**-**	**-**	**SL00933**	**3100**
	For Drawout Type with 400/500A taps	**-**	**-**	**SL00986**	**3100**
800 C	For Fixed Type with 640/800A taps	**-**	**-**	**SL00934**	**3100**
	For Drawout Type	**-**	**-**	**SL90593**	**3100**
800 C	For Fixed Type	**SL90569**	**3100**	**-**	**-**
	For Drawout Type	**SL90561**	**3100**	**-**	**-**
1000 S1	For Drawout Type	**SL90562**	**3100**	**SL90608**	**3100**
1000 C	For Fixed Type	**SL90570**	**3100**	**SL90608**	**3100**
	For Drawout Type	**SL90562**	**3100**	**SL90608**	**3100**
1250 S1	For Drawout Type	**SL90571**	**3800**	**SL00789**	**3800**
1250 C	For Fixed & Drawout Type	**SL90571**	**3800**	**SL00789**	**3800**
1600 S1	For Drawout Type	**SL90572**	**3800**	**SL00790**	**3800**
1600 C	For Fixed & Drawout Type	**SL90572**	**3800**	**SL00790**	**3800**
2000 S1	For Drawout Type	**SL93210**	**4100**	**SL00993**	**4100**
2000 C	For Fixed & Drawout Type	**SL90565**	**4100**	**-**	**-**
2000 C	For Fixed Type with 1000/1250A tap	**-**	**-**	**SL00791**	**4100**
	For Drawout Type with 1000/1250A tap	**-**	**-**	**SL00791**	**4100**
2000 C	For Fixed / Drawout Type with 1600/2000A tap	**-**	**-**	**SL00792**	**4100**
2500 S1	For Drawout Type	**SL90566**	**4100**	**SL00793**	**4100**
2500 C	For Fixed & Drawout Type	**SL90566**	**4100**	**SL00793**	**4100**
3200 S1	For Drawout Type	**SL90575**	**5000**	**SL00794**	**5000**
3200 H0	For Fixed & Drawout Type	**SL01740**	**5000**	**SL01707**	**5000**
4000 H0	For Fixed & Drawout Type	**SL01739**	**5600**	**SL01706**	**5600**
5000 C	For Drawout Type	**SL00990**	**7500**	**SL01985**	**7500**
6300 C	For Drawout Type	**SL00991**	**8800**	**SL01986**	**8800**

Note : For CTs of SR71 release, please contact our branch office

Description	Cat. No.	M.R.P. (₹) Per Unit
Arc Chute (For 415V)		
For 800 to 1600 C & 630 to 2000 S1	**SL90855**	**2800**
For 2000 C & 2500 C/S1	**SL90857**	**3300**
For 3200 S1	**SL91834**	**3600**
For 3200 H0 / 4000 H0 #	**SL90855**	**2800**

2 Pole in each phase
Note: Special Arc Chutes available for 690V AC application.

For retrofitting of any ACB to U-POWER OMEGA please contact our branch office

AIR CIRCUIT BREAKERS - U-POWER OMEGA

U-POWER OMEGA system of Air Circuit Breakers conform to IS/IEC 60947-2 & IEC 60947-2, EN 60947 and GB 14048.2

Rating - 800A to 6300A in three frame sizes
Versions - 3 Pole / 4 Pole, Manually / Electrically operated, Fixed / Draw-out
Protection Release - Micro controller based Protection & Control Unit with wide range of feature variants.

1) UW-MTX2.5 - LSI with current metering
2) UW-MTX2.5G - LSING with current metering
3) UW-MTX3.5 - LSING with Current Metering - can be upgraded for power metering & communication function
4) UW-MTX3.5EC - LSING with inbuilt Power metering & Communication
5) UW-MTX4.5 - LSING + Power metering + Communication with Touch Screen navigation

U-POWER Omega ACB ordering information :

UW	1	08	N	X	D	1	2	2	0	0	U-POWER Omega 800A Fr-1 50kA 3P EDO UW-MTX2.5G

Frame Size	
Frame - I	1
Frame - II	2
Frame - III	3

Current Ratings	
400A	04
630A	06
800A	08
1000A	10
1250A	12
1600A	16
2000A	20
2500A	25
3200A	32
4000A	40
5000A	50
6300A	63

Selection for Breaking Capacity (Icu=Ics)[1]	
50kA (Fr-I upto 1600A)	N
65kA (Fr-I & Fr-II)	S
80kA (Fr-I, Fr-II & Fr-III)	H
100kA (Fr-II & Fr-III)	V

Type	
Manually Operated	1
Electrically Operated	2

Version	
Draw-out	D
Fixed	F

Selection for No. of Poles[2]	
3 Pole	X
4 Pole 100% N	F
4 Pole 50% N (in Fr-III only)	H

Temperature Rise Monitoring[4]	
Not Required	0
Required	1

Selection for P&CU	
B/C (w/o protection)	0
UW-MTX2.5	1
UW-MTX2.5G	2
UW-MTX3.5	3
UW-MTX3.5EC	4
UW-MTX4.5	5

Selection for control voltage[3]	
For Manually Operated	0
240V ac ECD & CR & 240V ac SR	1
240V ac ECD & CR & 24V dc SR	2

Please Note :

(1) For Icw values please refer product catalogue
(2) 4 Pole ACB with 200% Neutral is available on request
(3) Other options of control voltage are available as accessory
(4) Temperature-rise protection module is available in UW-MTX3.5/3.5EC/4.5 and offered as factory fitted assembly.

U-POWER Omega ACBs are offered with following standard accessories:

Draw-out version : U-POWER Omega ACB with UW-MTX release will have - Current Metering, inbuilt Electrical (#) & Mechanical anti-pumping, 4NO+4NC Aux. contacts, Safety shutter assembly, Racking handle, Racking interlock, Door sealing frame, Push button cover, Rating-error preventor, Electrical Position Indicator, Arc shield (as inbuilt with frame1N / 2S / 3H) & terminal adapter at lower terminals.

Fixed version : U-POWER Omega ACB with UW-MTX release will have - Current Metering, inbuilt Electrical (#) & Mechanical anti-pumping, 4NO+4NC Aux. contacts, door sealing frame & Push button cover as inbuilt.
Electrically operated ACB includes electrical charging device, closing release & shunt release.
(#) - In Electrically operated Fixed / Draw-out versions.

AIR CIRCUIT BREAKERS - U-POWER OMEGA

U-POWER OMEGA 3 Pole ACBs with UW-MTX 2.5G

Current Rating	Version	3 Pole Draw-out with UW-MTX2.5G							
		N (50kA)		S (65kA)		H (80kA)		V (100kA)	
		Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit
800A	MDO	**UW108NXD01200**	**140900**	**UW108SXD01200**	**159450**	**UW208HXD01200**	**268800**	*	*
	EDO	**UW108NXD12200**	**175900**	**UW108SXD12200**	**194450**	**UW208HXD12200**	**303800**	*	*
1000A	MDO	**UW110NXD01200**	**151400**	**UW110SXD01200**	**171400**	**UW210HXD01200**	**268800**	*	*
	EDO	**UW110NXD12200**	**186400**	**UW110SXD12200**	**206400**	**UW210HXD12200**	**303800**	*	*
1250A	MDO	**UW112NXD01200**	**166350**	**UW112SXD01200**	**185300**	**UW212HXD01200**	**268800**	*	*
	EDO	**UW112NXD12200**	**201350**	**UW112SXD12200**	**220300**	**UW212HXD12200**	**303800**	*	*
1600A	MDO	**UW116NXD01200**	**181750**	**UW116SXD01200**	**202550**	**UW216HXD01200**	**268800**	*	*
	EDO	**UW116NXD12200**	**216750**	**UW116SXD12200**	**237550**	**UW216HXD12200**	**303800**	*	*
2000A	MDO	-	-	**UW120SXD01200**	**230400**	**UW220HXD01200**	**268800**	*	*
	EDO	-	-	**UW120SXD12200**	**265400**	**UW220HXD12200**	**303800**	*	*
2500A	MDO	-	-	**UW225SXD01200**	**301200**	**UW225HXD01200**	**316250**	*	*
	EDO	-	-	**UW225SXD12200**	**336200**	**UW225HXD12200**	**351250**	*	*
3200A	MDO	-	-	**UW232SXD01200**	**336000**	**UW232HXD01200**	**352800**	*	*
	EDO	-	-	**UW232SXD12200**	**371000**	**UW232HXD12200**	**387800**	*	*
4000A	MDO	-	-	-	-	**UW340HXD01200**	**433200**	*	*
	EDO	-	-	-	-	**UW340HXD12200**	**468200**	*	*
5000A	MDO	-	-	-	-	*	*	*	*
	EDO	-	-	-	-	*	*	*	*
6300A	MDO	-	-	-	-	*	*	*	*
	EDO	-	-	-	-	*	*	*	*

Current Rating	Version	3 Pole Manual Fixed with UW-MTX2.5G							
		N (50kA)		S (65kA)		H (80kA)		V (100kA)	
		Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit
800A	MF	**UW108NXF01200**	**93750**	**UW108SXF01200**	**105750**	*	*	*	*
1000A	MF	**UW110NXF01200**	**97500**	**UW110SXF01200**	**109500**	*	*	*	*
1250A	MF	**UW112NXF01200**	**111750**	**UW112SXF01200**	**127500**	*	*	*	*
1600A	MF	**UW116NXF01200**	**121500**	**UW116SXF01200**	**140250**	*	*	*	*
2000A	MF	-	-	**UW120SXF01200**	**150000**	*	*	*	*
2500A	MF	-	-	**UW125SXF01200**	**172500**	*	*	*	*
3200A	MF	-	-	**UW232SXF01200**	**225000**	*	*	*	*
4000A	MF	-	-	-	-	*	*	*	*
5000A	MF	-	-	-	-	*	*	*	*
6300A	MF	-	-	-	-	*	*	*	*

Note : For prices of Electrical Fixed versions add ₹ 35000 to the above MRPs (includes Electrical Charging device, Closing Release & Shunt Release)

Following are the M.R.P. changes for product customization		
Protection & Control Unit change		M.R.P. (₹) Per Unit
Buscoupler (without protection release)	Reduce	**28000**
UW-MTX2.5 (LSI + Current Metering)	Reduce	**6000**
UW-MTX3.5 (LSING + Current Metering) - can be upgraded for Power Metering & Communication	Add	**5000**
UW-MTX3.5 EC (LSING + Power Metering + Communication)	Add	**30000**
UW-MTX4.5 (LSING + Power Metering + Communication with Touch Screen navigation)	Add	*
UW-PS, Auxiliary power supply module for display in NO-load or OFF condition	CL90722	**10000**
Com module (MODBUS) for communication	CL90709	*
PM module for power metering	CL90704	*

* Available on request

AIR CIRCUIT BREAKERS - U-POWER OMEGA

U-POWER OMEGA 4 Pole with UW-MTX 2.5G

Current Rating	Version	4 Pole Draw-out with UW-MTX2.5G							
		N (50kA)		S (65kA)		H (80kA)		V (100kA)	
		Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit
800A	MDO	**UW108NFD01200**	**177600**	**UW108SFD01200**	**200900**	**UW208HFD01200**	**337750**	*	*
	EDO	**UW108NFD12200**	**212600**	**UW108SFD12200**	**235900**	**UW208HFD12200**	**372750**	*	*
1000A	MDO	**UW110NFD01200**	**188850**	**UW110SFD01200**	**213750**	**UW210HFD01200**	**337750**	*	*
	EDO	**UW110NFD12200**	**223850**	**UW110SFD12200**	**248750**	**UW210HFD12200**	**372750**	*	*
1250A	MDO	**UW112NFD01200**	**208200**	**UW112SFD01200**	**231850**	**UW212HFD01200**	**337750**	*	*
	EDO	**UW112NFD12200**	**243200**	**UW112SFD12200**	**266850**	**UW212HFD12200**	**372750**	*	*
1600A	MDO	**UW116NFD01200**	**230450**	**UW116SFD01200**	**256750**	**UW216HFD01200**	**337750**	*	*
	EDO	**UW116NFD12200**	**265450**	**UW116SFD12200**	**291750**	**UW216HFD12200**	**372750**	*	*
2000A	MDO	-	-	**UW120SFD01200**	**288700**	**UW220HFD01200**	**337750**	*	*
	EDO	-	-	**UW120SFD12200**	**323700**	**UW220HFD12200**	**372750**	*	*
2500A	MDO	-	-	**UW225SFD01200**	**378450**	**UW225HFD01200**	**397350**	*	*
	EDO	-	-	**UW225SFD12200**	**413450**	**UW225HFD12200**	**432350**	*	*
3200A	MDO	-	-	**UW232SFD01200**	**436250**	**UW232HFD01200**	**458050**	*	*
	EDO	-	-	**UW232SFD12200**	**471250**	**UW232HFD12200**	**493050**	*	*
4000A	MDO	-	-	-	-	**UW340HFD01200**	**546700**	*	*
	EDO	-	-	-	-	**UW340HFD12200**	**581700**	*	*
5000A	MDO	-	-	-	-	*	*	*	*
	EDO	-	-	-	-	*	*	*	*
6300A	MDO	-	-	-	-	*	*	*	*
	EDO	-	-	-	-	*	*	*	*

Current Rating	Version	4 Pole Manual Fixed with UW-MTX2.5G							
		N (50kA)		S (65kA)		H (80kA)		V (100kA)	
		Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit
800A	MF	**UW108NFF01200**	**117750**	**UW108SFF01200**	**132000**	*	*	*	*
1000A	MF	**UW110NFF01200**	**122250**	**UW110SFF01200**	**137250**	*	*	*	*
1250A	MF	**UW112NFF01200**	**138750**	**UW112SFF01200**	**157500**	*	*	*	*
1600A	MF	**UW116NFF01200**	**152250**	**UW116SFF01200**	**172500**	*	*	*	*
2000A	MF	-	-	**UW120SFF01200**	**187500**	*	*	*	*
2500A	MF	-	-	**UW125SFF01200**	**217500**	*	*	*	*
3200A	MF	-	-	**UW232SFF01200**	**281250**	*	*	*	*
4000A	MF	-	-	-	-	*	*	*	*
5000A	MF	-	-	-	-	*	*	*	*
6300A	MF	-	-	-	-	*	*	*	*

Note : For prices of Electrical Fixed versions add Rs. 35000 to the above MRPs (includes Electrical Charging device, Closing Release & Shunt Release)

Following are the M.R.P. changes for product customization		
Protection & Control Unit change		M.R.P. (₹) Per Unit
Buscoupler (without protection release)	Reduce	**28000**
UW-MTX2.5 (LSI + Current Metering)	Reduce	**6000**
UW-MTX3.5 (LSING + Current Metering) - can be upgraded for Power Metering & Communication	Add	**5000**
UW-MTX3.5 EC (LSING + Power Metering + Communication)	Add	**30000**
UW-MTX4.5 (LSING + Power Metering + Communication with Touch Screen navigation)	Add	*
UW-PS, Auxiliary power supply module for display at NO-load or OFF condition	CL90722	**10000**
Com module (MODBUS) for communication	CL90709	*
PM module for power metering	CL90704	*

* Available on request

AIR CIRCUIT BREAKERS - U-POWER OMEGA

Accessories (Common for U-POWER family)

Description	Cat. No.	M.R.P. (₹) Per Unit
Microswitch for Common fault indication (CFI)	**CL90949**	**2000**
Microswitch for Ready to close indication (RTC)	**CL90953**	**2000**
Microswitch for Shunt release	**CL90951**	**2000**
Microswitch for Undervoltage release	**CL90947**	**2000**
Electrical Position indication (EPI)	**CL90984**	**1600**
Operation Counter	**CL90983**	**1600**
Door Interlock	**CL90978**	**2200**
Auxiliary contact (4 NO + 4 NC)	**CL90955**	**5000**
Spring Charging Indication	**ST42672**	**1800**

	Mechanical Interlock using Key & Lock		
For R-Lock type	R - Locks Type - 1	**CL00659**	**1000**
	R - Locks Type - 2	**CL00660**	**1000**
	R - Locks Type - 3	**CL00661**	**1000**
	R - Locks Type - 12	**CL00662**	**1000**
	R - Locks Type - 23	**CL00663**	
	Locking arrangement for OFF button with R - Lock (on breaker)	**CL90815**	**1500**
	Locking arrangement for Iso. position with R - Lock (on Cradle)	**CL90865**	**1300**
	Locking arrangement for all position with R - Lock (on Cradle)	**CL90927**	**1100**
For C-Lock type	C - Lock Type - S	**CL00664**	**1750**
	C - Lock Type - T	**CL00665**	**1750**
	C - Lock Type - ST	**CL00666**	**1750**
	C - Lock Type - SS	**CL00667**	**1750**
	C - Lock Type - TT	**CL00668**	**1750**
	Locking arrangement for OFF button with C - Lock (on breaker)	**CL90814**	**1500**
	Locking arrangement for Iso. position for C - Lock (on Cradle)	**CL90982**	**1300**
	Locking arrangement for all position with C - Lock (on Cradle)	**CL90981**	**1100**

Note : To be ordered as combination of Lock and Locking arrangement

For U-POWER Omega

External Neutral CT for UW-MTX 2.5G / 3.5 / 3.5EC / 4.5		
For 400 / 630 / 800A; Fr-1, 2 & 3	**CL00717**	**5600**
For 1000 / 1250 / 1600A; Fr-1, 2 & 3	**CL00718**	**6000**
For 2000 / 2500A; Fr-1	**CL00719**	**8700**
For 2000 / 2500 / 3200A; Fr-2 & 3	**CL00720**	**13000**
For 4000A; Fr-3	**CL00720**	**13000**
Terminal Adaptor for Draw-out ACB (Unit Quantity)		
For 400A to 2000A; Fr-1 (Vert. / Hori.)	**CL60963**	**2800**
For 2500A; Fr-1 (Vert.)	**CL60964**	**5000**
For 2000A to 3200A; Fr-2 (Vert. / Hori.)	**CL60964**	**5000**
For 3200 & 4000A; Fr-3 (Vert. / Hori.)	**CL90693**	**2800**

New Auto Source Transfer Controller

Type	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
AuXC-1000	**ST80230OOOO**	**55285**	1
Can be used along with dsine MCCBs, U-POWER ACBs and MCX contactors			

Description	Cat. No.	M.R.P. (₹) Per Unit
Electrical Charging Device (ECD)		
110V AC / 110-125V DC	**CL90360OOOO**	**30000**
220V AC / 200V DC	**CL90364OOOO**	**30000**
240V AC / 250V DC	**CL90359OOOO**	**30000**
415V AC / 400V DC	**CL90961OOOO**	**30000**
24 - 30V DC	**CL90362OOOO**	**30000**
Closing Release (CR)		
110V AC & DC	**CL90817AOOO**	**3500**
240V AC / 220 - 250V DC	**CL90817BOOO**	**3500**
415V AC	**CL90817DOOO**	**3500**
24 - 30V DC	**CL908174OOO**	**3500**
Shunt Release (SR)		
110V AC / 110V DC	**CL90816OAOO**	**3500**
240V AC / 220 - 250V DC	**CL90816OBOO**	**3500**
415V AC	**CL90816ODOO**	**3500**
24 - 30V DC	**CL90816O4OO**	**3500**
Under Voltage Release (UVR) with time delay (0-1-3-5 sec)		
110V AC	**CL90818AOOO**	**7000**
240V AC	**CL90818BOOO**	**7000**
415V AC	**CL90818DOOO**	**7000**
24 - 30V DC	**CL908184OOO**	**7000**

Note : Common from 400A to 6300A

Mechanical Interlock using Bowden Cable (3 meters length)		
Between 2 Incomers	**CL90659**	**9000**
Between 3 Incomers	**CL90660**	**13500**
Between 2 Incomers & 1 Standby	**CL90661**	**13500**
Between 2 Incomers & 1 Buscoupler	**CL90662**	**13500**
Mechanical Interlock using Bowden Cable (2 meters length)		
Between 2 Incomers	**CL90810**	**8000**
Between 3 Incomers	**CL90811**	**12000**
Between 2 Incomers & 1 Standby	**CL90812**	**12000**
Between 2 Incomers & 1 Buscoupler	**CL90813**	**12000**

Note : Common from 400A to 6300A, can be interlocked between Fixed / Draw-out / Mixed version

New

POWERMAN

System for :

- **Complete monitoring of Power & Energy Parameters**
- **Breaker Control**

For details contact our branch office

Cat. No.	Description	M.R.P. (₹) Per Unit
BPV3040RS	Powerman for 04 RS485 Meters/ACB/MCCB	**33700**
BPV3080RS	Powerman for 08 RS485 Meters/ACB/MCCB	**54500**
BPV3120RS	Powerman for 12 RS485 Meters/ACB/MCCB	**69900**
BPV3160RS	Powerman for 16 RS485 Meters/ACB/MCCB	**89500**
BPV304ARH	Add on Powerman for 04 RS485 Meters/ACB/MCCB	**15000**
BPV308ARH	Add on Powerman for 08 RS485 Meters/ACB/MCCB	**29900**
BPV312ARH	Add on Powerman for 12 RS485 Meters/ACB/MCCB	**44840**
BPV316ARH	Add on Powerman for 16 RS485 Meters/ACB/MCCB	**59780**

MOULDED CASE CIRCUIT BREAKERS

- Conforming to IS/IEC 60947-2 & IEC 60947-2
- Comprehensive range from 0.63A to 1600A
- 1, 2, 3 & 4 pole versions
- Breaking capacities upto 100kA
- Manual, Electrical operation
- Fixed, Plug-in & Withdrawable versions
- Protection units :
  - Thermal Magnetic
  - Microprocessor based
  - Microprocessor based with communication & metering
- Comprehensive range of internal & external accessories

- Use of phase barriers is mandatory. These are supplied along with MCCBs
- It is recommended to use spreader terminals for enhancing termination capacity
- Spreader terminals are available as spares, unless otherwise specified against Cat. Nos.
- Any 2 internal accessories can be fitted

Special Applications

- For special applications like capacitor switching & DC etc. please contact nearest branch office
- **For Motor backup protection, use 'M' series of MCCBs such as DM, DN2M, DN3M**
- Please Contact nearest branch office for availability of Plug-in, Draw-out & higher breaking capacity MCCBs

DU100H MCCB

Type	Thermal Release Range (A)	Breaking Capacity Icu at 415V. AC 50Hz. (kA)	3 Pole		4 Pole		Std. Pkg. (Nos.)
			Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	
DU100H	16-20	30	**CM97894OOC2**	**3500**	**CM97933OOC2**	**4640**	1
	20-25	30	**CM97894OOD2**	**3500**	**CM97933OOD2**	**4640**	1
	25-32	30	**CM97894OOE2**	**3500**	**CM97933OOE2**	**4640**	1
	32-40	30	**CM97894OOF2**	**3500**	**CM97933OOF2**	**4640**	1
	40-50	30	**CM97894OOG2**	**3500**	**CM97933OOG2**	**4640**	1
	50-63	30	**CM97894OOH2**	**3500**	**CM97933OOH2**	**4640**	1
	63-80	30	**CM97894OOJ2**	**3530**	**CM97933OOJ2**	**4680**	1
	80-100	30	**CM97894OOK2**	**3560**	**CM97933OOK2**	**4730**	1

DU250 MCCB

Type	Thermal Release Range (A)	Breaking Capacity Icu at 415V. AC, 50Hz. (kA)	3 Pole	
			Cat. No.	M.R.P. (₹) Per Unit
DU250	80-100	36	**CM98064OOOO**	**4890**
	100-125	36	**CM98063OOOO**	**5720**
	125-160	36	**CM98062OOOO**	**6830**
	160-200	36	**CM98061OOOO**	**9020**
	200-250	36	**CM98060OOOO**	**10500**

Accessories for DU100H & DU250 MCCB

Description (for DU100H/DU250)	Internal			Description	External		
	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (No.s)		Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Aux. Contact 1 C/O - Right	**CM97886OOOO**	**590**	1	DU100H Spreader Terminals - 3 Pole	**CM97785OOOO**	**150**	Set of 6
Aux. Contact 2 C/O - Right	**CM97887OOOO**	**1030**	1	DU100H Spreader Terminals - 4 Pole	**CM97921OOOO**	**260**	Set of 8
Trip Alarm Contact 1 C/O - Right	**CM97888OOOO**	**580**	1	DU100H ROM - Direct	**CM97895OOOO**	**800**	1
Trip Alarm Contact 2 C/O - Right	**CM97889OOOO**	**1030**	1	DU100H ROM - Extended	**CM97896OOOO**	**1260**	1
Aux. 1 C/O + TAC 1 C/O - Right	**CM97890OOOO**	**1030**	1	DU250 Spreader Terminals - 3 Pole	**ST98053OOOO**	**890**	Set of 6
Shunt Release 415/240V AC - Left	**CM97883OMOO**	**840**	1	DU250 ROM - Direct	**CM98040OOOO**	**860**	1
Under Voltage Release 240V AC - Left	**CM97892BOOO**	**1080**	1	DU250 ROM - Extended	**CM98041OOOO**	**1290**	1

MOULDED CASE CIRCUIT BREAKERS

D-Pan assembly D1 with DU100 & DU100H MCCBs as outgoings (only 3 Pole)

Description I/C - dsine O/G - DU 100	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)	Description I/C - dsine O/G - DU 100H	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
D-Pan I/C 250A O/G 4 Way-DU100	**CM97821OOOO**	**10500**	1	D-Pan I/C 250A O/G 4 Way-DU100H	**CM97912OOOO**	**10500**	1
D-Pan I/C 250A O/G 8 Way-DU100	**CM97822OOOO**	**14700**	1	D-Pan I/C 250A O/G 8 Way-DU100H	**CM97913OOOO**	**14700**	1
D-Pan I/C 250A O/G 12 Way-DU100	**CM97823OOOO**	**19010**	1	D-Pan I/C 250A O/G 12 Way-DU100H	**CM97914OOOO**	**19010**	1
D-Pan I/C 400A O/G 4 Way-DU100	**CM98605OOOO**	**12290**	1	D-Pan I/C 400A O/G 4 Way-DU100H	**CM97915OOOO**	**12290**	1
D-Pan I/C 400A O/G 8 Way-DU100	**CM98606OOOO**	**16490**	1	D-Pan I/C 400A O/G 8 Way-DU100H	**CM97916OOOO**	**16490**	1
D-Pan I/C 400A O/G 12 Way-DU100	**CM98607OOOO**	**20790**	1	D-Pan I/C 400A O/G 12 Way-DU100H	**CM97917OOOO**	**20790**	1

DU 125 / 160 / 200 MCCB

Type	Thermal Release Range (A)	Breaking Capacity Icu at 415V. AC, 50Hz. (kA)	3 Pole		4 Pole		Std. Pkg. (Nos.)
			Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	
DU125	25-32	30	**CM98900OOOO**	**4020**	**CM98104OOOO**	**5180**	1
	32-40	30	**CM98901OOOO**	**4020**	**CM98105OOOO**	**5180**	1
	40-50	30	**CM98902OOOO**	**4020**	**CM98106OOOO**	**5180**	1
	50-63	30	**CM98903OOOO**	**4020**	**CM98107OOOO**	**5180**	1
	63-80	30	**CM98904OOOO**	**4060**	**CM98108OOOO**	**5230**	1
	80-100	30	**CM98905OOOO**	**4370▲**	**CM98109OOOO**	**5620▲**	1
	100-125	30	**CM97791OOOO**	**6020▲**	**CM98110OOOO**	**7790▲**	1
DU160	125-160	30	**CM97792OOOO**	**7620▲**	**CM98111OOOO**	**9080▲**	1
DU200	160-200	30	**CM97793OOOO**	**9640▲**			

▲- Spreader Terminals are included.

Accessories for DU125 / 160 / 200 MCCB

Description (for DU125 / 160 / 200)	Internal		Std. Pkg. (Nos.)	Description	External		Std. Pkg. (Nos.)
	Cat. No.	M.R.P. (₹) Per Unit			Cat. No.	M.R.P. (₹) Per Unit	
Aux. Contact - Right	**SL97296OOOO**	**770**	1	DU125 / 160 / 200 Spreader Terminals - 3 Pole	**ST98047OOOO**	**320**	Set of 6
Aux. Contact - Left	**SL97297OOOO**	**770**	1	DU125 / 160 / 200 Spreader Terminals - 4 Pole	**ST98060OOOO**	**420**	Set of 8
Trip Alarm Contact - Right	**SL97298OOOO**	**800**	1	DU125 / 160 / 200 S S Enclosure	**ST29967OOOO**	**1320**	1
Shunt Release - 110 - 415V AC - Left	**SL97299OMOO**	**870**	1	DU125 / 160 / 200 ROM - Extended - 3 & 4 Pole - New look	**CM99103OOOO**	**1150**	1
Under Voltage Release - 240V AC - Left	**SL97611OOOO**	**1170**	1				

DU100 MCCB

Type	Thermal Release Range (A)	Breaking Capacity Icu at 415V. AC, 50Hz. (kA)	3 Pole		Std. Pkg. (Nos.)
			Cat. No.	M.R.P. (₹) Per Unit	
DU100	16	10	**CM97751OOOO**	**1750**	1
	20	10	**CM97752OOOO**	**1750**	1
	25	10	**CM97753OOOO**	**1750**	1
	32	10	**CM97754OOOO**	**1750**	1
	40	10	**CM97755OOOO**	**1750**	1
	50	10	**CM97756OOOO**	**1750**	1
	63	10	**CM97757OOOO**	**1750**	1
	80	10	**CM98921OOOO**	**1900▲**	1
	100	10	**CM98922OOOO**	**1900▲**	1

▲- Spreader Terminals are included.

Accessories for DU100 MCCB

Description	Internal			Description	External		
	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)		Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Aux. Contact - Right	**CM97781OOOO**	**380**	1	DU100 Spreader Terminals - 3 Pole	**CM97785OOOO**	**150**	Set of 6
Aux. Contact - Left	**CM97782OOOO**	**380**	1	DU100 S S Enclosure	**ST98050OOOO**	**590**	1
Shunt Release - 240 - 415V AC - Left	**CM97783OOOO**	**440**	1	DU100 ROM - Direct	**SL97044OOOO**	**710**	1

d sine MOULDED CASE CIRCUIT BREAKERS

- d sine MCCBs come in a grey color scheme & have new type designations.

Breaking Capacity	Old type designation	New type designation
36kA	S	D
50kA	H	N
70kA	L	S

d sine with Thermal - Magnetic Releases:

Thermal - Magnetic Release (Thermal setting = 80-100% In & Magnetic setting = 6-10 In), Icu = Ics = 100%											
3 Pole						4 Pole					
Type	Thermal Release Range (A)	Breaking Capacity Icu at 415V. AC, 50Hz. (kA)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)	Type	Thermal Release Range (A)	Breaking Capacity Icu at 415V. AC, 50Hz. (kA)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
DN2-250D	100-125	36	**CM92008OOL1OG**	**8650**	1	DN2-250D	100-125	36	**CM92108OOL1OG**	**10770**	1
	125-160	36	**CM92008OOM1OG**	**10510**	1		125-160	36	**CM92108OOM1OG**	**12840**	1
	160-200	36	**CM92009OON1OG**	**14710**	1		160-200	36	**CM92109OON1OG**	**17730**	1
	200-250	36	**CM92009OOP1OG**	**17150**	1		200-250	36	**CM92109OOP1OG**	**20530**	1
DN3-400D	250-320	36	**CM94005OOQ1OG**	**21210**	1	DN3-400D	250-320	36	**CM94105OOQ1OG**	**25870**	1
	320-400	36	**CM94005OOR1OG**	**21210**	1		320-400	36	**CM94105OOR1OG**	**26370**	1
DN3-630D	400-500	36	**CM94006OOSOOG**	**24470**	1	DN3-630D	400-500	36	**CM94106OOSOOG**	**30370#**	1
	500-630	36	**CM94006OOTOOG**	**24580**	1		500-630	36	**CM94106OOTOOG**	**30940#**	1
DN2-250N	100-125	50	**CM92005OOL1OG**	**10920**	1	DN2-250N	100-125	50	**CM92105OOL1OG**	**15160**	1
	125-160	50	**CM92005OOM1OG**	**12290**	1		125-160	50	**CM92105OOM1OG**	**16870**	1
	160-200	50	**CM92006OON1OG**	**16760**	1		160-200	50	**CM92106OON1OG**	**21410**	1
	200-250	50	**CM92006OOP1OG**	**19350**	1		200-250	50	**CM92106OOP1OG**	**22910**	1
DN3-400N	250-320	50	**CM94003OOQ1OG**	**22720**	1	DN3-400N	250-320	50	**CM94103OOQ1OG**	**28390**	1
	320-400	50	**CM94003OOR1OG**	**22720**	1		320-400	50	**CM94103OOR1OG**	**28390**	1
DN3-630N	400-500	50	**CM94004OOSOOG**	**26740#**	1	DN3-630N	400-500	50	**CM94104OOSOOG**	**33920#**	1
	500-630	50	**CM94004OOTOOG**	**27120#**	1		500-630	50	**CM94104OOTOOG**	**34890#**	1
DN2-250S	100-125	70	**CM92002OOL1OG**	**14740**	1	DN2-250S	100-125	70	**CM92102OOL1OG**	**17180**	1
	125-160	70	**CM92002OOM1OG**	**17030**	1		125-160	70	**CM92102OOM1OG**	**20210**	1
	160-200	70	**CM92003OON1OG**	**20350**	1		160-200	70	**CM92103OON1OG**	**24760**	1
	200-250	70	**CM92003OOP1OG**	**22560**	1		200-250	70	**CM92103OOP1OG**	**26780**	1
DN3-400S	250-320	70	**CM94001OOQ1OG**	**24860**	1	DN3-400S	250-320	70	**CM94101OOQ1OG**	**30360**	1
	320-400	70	**CM94001OOR1OG**	**24860**	1		320-400	70	**CM94101OOR1OG**	**30360**	1
DN3-630S	400-500	70	**CM94002OOSOOG**	**33630#**	1	DN3-630S	400-500	70	**CM94102OOSOOG**	**35710#**	1
	500-630	70	**CM94002OOTOOG**	**33900#**	1		500-630	70	**CM94102OOTOOG**	**41120#**	1

 # magnetic setting 3-6 In. Please contact nearest branch office for magnetic setting 6-10 In.

d sine Switch Disconnector (MCCBs without protection release)

Switch Disconnector									
3 Pole					4 Pole				
Type	Current Rating (A)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)	Type	Current Rating (A)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
DN2-250SD	100	**CM96808OOKOOG**	**7900**	1	DN2-250SD	100	**CM96809OOKOOG**	**9800**	1
	125	**CM96810OOLOOG**	**8100**	1		125	**CM96811OOLOOG**	**10100**	1
	160	**CM96817OOMOOG**	**9610**	1		160	**CM96818OOMOOG**	**11900**	1
	200	**CM96814OONOOG**	**12600**	1		200	**CM96815OONOOG**	**16200**	1
	250	**CM96802OOPOOG**	**13190**	1		250	**CM96803OOPOOG**	**17140**	1
DN3-400SD	320	**CM96804OOQOOG**	**15500**	1	DN3-400SD	320	**CM96805OOQOOG**	**20600**	1
	400	**CM96804OOROOG**	**16500**	1		400	**CM96805OOROOG**	**21200**	1
DN3-630SD	500	**CM96806OOSOOG**	**18300**	1	DN3-630SD	500	**CM96807OOSOOG**	**23800**	1
	630	**CM96806OOTOOG**	**19390**	1		630	**CM96807OOTOOG**	**25200**	1

d sine MOULDED CASE CIRCUIT BREAKERS

d sine MCCBs with Microprocessor Releases RC10

Microprocessor Release RC10 (Integral Overload, Short circuit, Earth fault & Neutral protection), Icu = Ics = 100%											
3 Pole						4 Pole					
Type	Thermal Release Range (A)	Breaking Capacity Icu at 415V. AC, 50Hz. (kA)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)	Type	Thermal Release Range (A)	Breaking Capacity Icu at 415V. AC, 50Hz. (kA)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
DN2-250D	16-40	36	**CM92063OOOOOG**	**19440**	1	DN2-250D	16-40	36	**CM92155OOOOOG**	**21420**	1
	25-63	36	**CM92071OOOOOG**	**19440**	1		25-63	36	**CM92154OOOOOG**	**21840**	1
	40-100	36	**CM92051OOOOOG**	**19530**	1		40-100	36	**CM92153OOOOOG**	**21980**	1
	63-160	36	**CM92074OOOOOG**	**20190**	1		63-160	36	**CM92152OOOOOG**	**25890**	1
	100-250	36	**CM92054OOOOOG**	**23450**	1		100-250	36	**CM92151OOOOOG**	**30480**	1
DN3-400D	160-400	36	**CM93001OOOOOG**	**26240**	1	DN3-400D	160-400	36	**CM93003OOOOOG**	**32100**	1
DN3-630D	250-630	36	**CM93005OOOOOG**	**28300**	1	DN3-630D	250-630	36	**CM93007OOOOOG**	**38880**	1
DN2-250N	16-40	50	**CM92064OOOOOG**	**20440**	1	DN2-250N	16-40	50	**CM92160OOOOOG**	**23790**	1
	25-63	50	**CM92072OOOOOG**	**20440**	1		25-63	50	**CM92159OOOOOG**	**23850**	1
	40-100	50	**CM92052OOOOOG**	**20490**	1		40-100	50	**CM92158OOOOOG**	**23910**	1
	63-160	50	**CM92075OOOOOG**	**21610**	1		63-160	50	**CM92157OOOOOG**	**29620**	1
	100-250	50	**CM92055OOOOOG**	**25380**	1		100-250	50	**CM92156OOOOOG**	**32750**	1
DN3-400N	160-400	50	**CM93002OOOOOG**	**28570**	1	DN3-400N	160-400	50	**CM93004OOOOOG**	**35160**	1
DN3-630N	250-630	50	**CM93006OOOOOG**	**30670**	1	DN3-630N	250-630	50	**CM93008OOOOOG**	**42970**	1
DN4-1250N	320-800	50	**CM96011OOOOEG**	**52440**	1	DN4-1250N	320-800	50	**CM96111OOOOEG**	**61670**	1
	400-1000	50	**CM96012OOOOOG**	**64380**	1		400-1000	50	**CM96112OOOOOG**	**83980**	1
	500-1250	50	**CM96013OOOOOG**	**77560**	1		500-1250	50	**CM96113OOOOOG**	**103900**	1
DN2-250S	16-40	70	**CM92065OOOOOG**	**21050**	1	DN2-250S	16-40	70	**CM92165OOOOOG**	**25630**	1
	25-63	70	**CM92073OOOOOG**	**22220**	1		25-63	70	**CM92164OOOOOG**	**25630**	1
	40-100	70	**CM92059OOOOOG**	**22250**	1		40-100	70	**CM92163OOOOOG**	**25760**	1
	63-160	70	**CM92076OOOOOG**	**24040**	1		63-160	70	**CM92162OOOOOG**	**29400**	1
	100-250	70	**CM92056OOOOOG**	**28190**	1		100-250	70	**CM92161OOOOOG**	**31160**	1
DN3-400S	160-400	70	**CM94053OOOOOG**	**31800**	1	DN3-400S	160-400	70	**CM94153OOOOOG**	**34410**	1
DN3-630S	250-630	70	**CM94079OOOOOG**	**37500**	1	DN3-630S	250-630	70	**CM94179OOOOOG**	**58830**	1

For communication capable release, Please contact nearest branch office.

d sine MCCBs for Motor back-up Protection

Only Short circuit protection					
3 Pole					
Type	Current Rating (A)	Breaking Capacity Iq at 415V. AC, 50Hz. (kA)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
DN2-250M	100	50	**CM92172OOKOOG**	**8650**	1
	125	50	**CM92172OOLOOG**	**8650**	1
	160	50	**CM92172OOMOOG**	**10200**	1
	200	50	**CM92171OONOOG**	**13230**	1
	250	50	**CM92171OOPOOG**	**17090**	1
DN3-400M	320	50	**CM94516OOQOOG**	**18740**	1
	400	50	**CM94516OOROOG**	**19850**	1
New DN3-630M	500	50	**CM94515OOSOOG**	**23400**	1
	630	50	**CM94515OOTOOG**	**23800**	1

Note: Please contact nearest branch office for type 2 co-ordination chart.

d sine MOULDED CASE CIRCUIT BREAKERS

Accessories for d sine MCCBs

Description	Internal			Description	External		
	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)		Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Aux. Contact 1 C/O	**CM99801OOOO**	**730**	1	DN2 Direct Rotary Handle	**CM99829OOOO**	**1070**	1
Aux. Contact 2 C/O	**CM99802OOOO**	**1300**	1	DN3 Direct Rotary Handle	**CM99860OOOO**	**1580**	1
Trip Alarm Contact 1 C/O - Right	**CM99803OOOO**	**740**	1	DN2 Extended Rotary Handle	**CM99830OOOO**	**1470**	1
Aux. 1 C/O + TAC 1 C/O - Right	**CM99804OOOO**	**1380**	1	DN3 Extended Rotary Handle	**CM99861OOOO**	**2600**	1
Shunt Release 110-415V AC, 110-220V DC	**CM99805OOOO**	**1680 &**	1	DN4 Extended Rotary Handle	**CM99884OOOO**	**3640**	1
Under Voltage Release - DN2/DN3-240V AC - Left	**CM99986BOOO**	**2100 ****	1	Panel door mounted Key lock for Extended Rotary Handle - Type 1	**CM99958TOOOO**	**1310**	1
Under Voltage Release - DN4-240V AC - Left	**CM99906OOOO**	**2250 **@**	1	Panel door mounted Key lock for Extended Rotary Handle - Type 2	**CM99958TOOOA**	**1310**	1
				Panel door mounted Key lock for Extended Rotary Handle - Type 3	**CM99958TOOOB**	**1310**	1
				Panel door mounted Key lock for Extended Rotary Handle - Type 12	**CM99958TOOOC**	**1310**	1
				Panel door mounted Key lock for Extended Rotary Handle - Type 23	**CM99958TOOOD**	**1310**	1
				DN2-250 Spreader Terminals - 3 Pole	**ST98053OOOO**	**890**	Set of 6
				DN3-400 Spreader Terminals - 3 Pole	**ST98065OOOO**	**1760**	Set of 6
				DN3-630 Spreader Terminals - 3 Pole	**ST98054OOOO**	**1970**	Set of 6
				DN4-800 Spreader Terminals - 3 Pole	**ST90361OOOO**	**3470**	Set of 6
				DN4-1000-1250 Spreader Terminals - 3 Pole	**ST98055OOOO**	**13130**	Set of 6
				DN2-250 Spreader Terminals - 4 Pole	**CM92007OOOO**	**1200**	Set of 8
				DN3-400 Spreader Terminals - 4 Pole	**ST98066OOOO**	**2520**	Set of 8
				DN3-630 Spreader Terminals - 4 Pole	**CM92004OOOO**	**2970**	Set of 8
				DN4-800 Spreader Terminals - 4 Pole	**ST90362OOOO**	**4730**	Set of 8
				DN4-1000-1250 Spreader Terminals - 4 Pole	**ST98058OOOO**	**17330**	Set of 8
				DN2 Mechanical Interlock Kit - Base Mounted	**CM99731OOOO**	**3610**	1
				DN3 Mechanical Interlock Kit - Base Mounted	**CM99732OOOO**	**5670**	1
				DN3 Motor Operator - Stored Energy 240V AC	**CM98130OOOO**	**22400**	1

@ Please contact nearest branch office for availability information
& - 'NO' of control contactor to be connected in series for DC control supply.
**** - Do not use these UV Cat. Nos. with 'Non-OG' (White look) Cat. Nos. MCCBs, Similarly, do not use old UV Cat. Nos. with 'OG' (Grey look) Cat. Nos. MCCBs.**

New Auto Source Transfer Controller

Type	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
AuXC-1000	**ST80230OOOO**	**Refer page no.8**	1
Can be used along with d sine MCCBs, U-POWER ACBs and MCX contactors			

Note: Please contact nearest branch office for ASTS solution (Auto Source Transfer System)

MOULDED CASE CIRCUIT BREAKERS

DH MCCB

Thermal - Magnetic Release (Thermal setting = 80-100% In)											
3 Pole						4 Pole					
Type	Thermal Release Range (A)	Breaking Capacity Icu at 415V. AC, 50Hz. (kA)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)	Type	Thermal Release Range (A)	Breaking Capacity Icu at 415V. AC, 50Hz. (kA)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
DH100 Ics = 100% Icu	12-16	25	**SL97201OOOO**	**4610**	1	DH100 Ics = 100% Icu	12-16	25	**SL98597OOOO**	**6510**	1
	16-20	25	**SL97202OOOO**	**4610**	1		16-20	25	**SL98598OOOO**	**6510**	1
	20-25	25	**SL97203OOOO**	**4610**	1		20-25	25	**SL98599OOOO**	**6510**	1
	25-32	25	**SL97204OOOO**	**4610**	1		25-32	25	**SL98600OOOO**	**6510**	1
	32-40	25	**SL97205OOOO**	**4610**	1		32-40	25	**SL98601OOOO**	**6510**	1
	40-50	25	**SL97206OOOO**	**4610**	1		40-50	25	**SL98602OOOO**	**6510**	1
	50-63	25	**SL97207OOOO**	**4610**	1		50-63	25	**SL98603OOOO**	**6510**	1
	63-80	25	**SL97208OOOO**	**4610**	1		63-80	25	**SL98604OOOO**	**6510**	1
	80-100	25	**SL97209OOOO**	**4920▲**	1		80-100	25	**SL98605OOOO**	**6930▲**	1
DH125 Ics = 100% Icu	12-16	35	**SL98644OOOO**	**6580**	1	DH125 Ics = 100% Icu	12-16	35	**SL98611OOOO**	**7620**	1
	16-20	35	**SL98645OOOO**	**6580**	1		16-20	35	**SL98612OOOO**	**7620**	1
	20-25	35	**SL98646OOOO**	**6580**	1		20-25	35	**SL98613OOOO**	**7620**	1
	25-32	35	**SL98647OOOO**	**6580**	1		25-32	35	**SL98614OOOO**	**7620**	1
	32-40	35	**SL98648OOOO**	**6580**	1		32-40	35	**SL98615OOOO**	**7620**	1
	40-50	35	**SL98649OOOO**	**6580**	1		40-50	35	**SL98616OOOO**	**7620**	1
	50-63	35	**SL98650OOOO**	**6580**	1		50-63	35	**SL98617OOOO**	**7620**	1
	63-80	35	**SL98651OOOO**	**6580**	1		63-80	35	**SL98618OOOO**	**7690**	1
	80-100	35	**SL98652OOOO**	**7230▲**	1		80-100	35	**SL98619OOOO**	**8470▲**	1
	100-125	35	**SL98653OOOO**	**7510▲**	1		100-125	35	**SL98607OOOO**	**8470▲**	1
DH160	128-160	35	**SL98654OOOO**	**10570▲**	1	DH160	128-160	35	**SL98608OOOO**	**11680▲**	1
DH200	160-200	35	**SL98655OOOO**	**11900▲**	1						
DH400*	250-320	35	**SL97883OOOO**	**22710▲**	1						
	320-400	35	**SL97884OOOO**	**22710▲**	1						
DH630*	400-500	35	**SL94531OOOO**	**24660▲**	1						
	500-630	35	**SL94532OOOO**	**24660▲**	1						

▲- Spreader Terminals are included.

*** DH400, DH630 MCCBs will be available till stocks last, for accessories please refer page no. 16**

DL MCCB

Thermal - Magnetic Release (Thermal setting = 80-100% In)											
3 Pole						4 Pole					
Type	Thermal Release Range (A)	Breaking Capacity Icu at 415V. AC, 50Hz. (kA)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)	Type	Thermal Release Range (A)	Breaking Capacity Icu at 415V. AC, 50Hz. (kA)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
DL 100 Ics = 100% Icu	12-16	50	**SL97801OOOO**	**9520**	1	DL 100 Ics = 100% Icu	12-16	50	**SL98620OOOO**	**10820**	1
	16-20	50	**SL97802OOOO**	**9520**	1		16-20	50	**SL98621OOOO**	**10820**	1
	20-25	50	**SL97803OOOO**	**9520**	1		20-25	50	**SL98622OOOO**	**10820**	1
	25-32	50	**SL97804OOOO**	**9520**	1		25-32	50	**SL98623OOOO**	**10820**	1
	32-40	50	**SL97805OOOO**	**9520**	1		32-40	50	**SL98624OOOO**	**10820**	1
	40-50	50	**SL97806OOOO**	**9520**	1		40-50	50	**SL98625OOOO**	**10820**	1
	50-63	50	**SL97807OOOO**	**9520**	1		50-63	50	**SL98626OOOO**	**10820**	1
	63-80	50	**SL97808OOOO**	**9520**	1		63-80	50	**SL98627OOOO**	**10820**	1
	80-100	50	**SL97809OOOO**	**9860▲**	1		80-100	50	**SL98628OOOO**	**11350▲**	1

▲- Spreader Terminals are included.

For Icu = 65 kA please contact nearest branch office.

Accessories for DH100 / 125 / 160 / 200, DL100 MCCB

Description	Internal			Description	External		
	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)		Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
DH100/125/160/200, DL100 Aux. Contact - 1 C/O - Right	**SL97296OOOO**	**770**	1	DH100/125/160/200, DL100 Spreader Terminals - 3 Pole	**ST98047OOOO**	**320**	Set of 6
DH100/125/160/200, DL100 Aux. Contact - 1 C/O - Left	**SL97297OOOO**	**770**	1	DH100/125/160/200, DL100 Spreader Terminals - 4 Pole	**ST98060OOOO**	**420**	Set of 8
DH100/125/160/200, DL100 Trip Alarm Contact - Right	**SL97298OOOO**	**800**	1	DH100/125/160/200, DL100 S S Enclosure	**ST29967OOOO**	**1320**	1
DH100/125/160/200, DL100 Shunt Release - 240V AC - Left	**SL97299OMOO**	**870**	1	DH100/125/160/200, DL100 - ROM - Extended - 3 & 4 Pole - New look	**CM99103OOOO**	**1150**	1
DH100/125/160/200, DL100 Shunt Release - 24V DC - Left	**SL97299O4OO**	**880**	1				
DH100/125/160/200, DL100 Under Voltage Release - 240V AC - Left	**SL97611OOOO**	**1170**	1				

MOULDED CASE CIRCUIT BREAKERS

DM MCCBs for Motor back-up Protection

Only Short circuit protection					
3 Pole					
Type	Current Rating (A)	Breaking Capacity Iq at 415V, 50 Hz (kA)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
DM16	0.63	65	**SL97581OOOO**	**3820**	1
	1.0	65	**SL97582OOOO**	**3820**	1
	1.6	65	**SL97583OOOO**	**3820**	1
	2.5	65	**SL97584OOOO**	**3820**	1
	4.0	65	**SL97585OOOO**	**3820**	1
	5.0	65	**SL97586OOOO**	**3820**	1
	6.3	65	**SL97587OOOO**	**3820**	1
	7.5	65	**SL97588OOOO**	**3820**	1
	10.0	65	**SL97589OOOO**	**3820**	1
	12.0	65	**SL97590OOOO**	**3820**	1
	16.0	65	**SL97591OOOO**	**3820**	1
DM100	16.0	65	**SL97811OOOO**	**9550**	1
	25.0	65	**SL97812OOOO**	**9550**	1
	30.0	65	**SL97816OOOO**	**9550**	1
	35.0	65	**SL97813OOOO**	**9550**	1
	50.0	65	**SL97814OOOO**	**9550**	1
	60.0	65	**SL97817OOOO**	**9550**	1
	70.0	65	**SL97815OOOO**	**9550**	1
	80.0	65	**SL97987OOOO**	**9550**	1

DM MCCBs for Motor back-up Protection

Only Short circuit protection					
3 Pole					
Type	Current Rating (A)	Breaking Capacity Iq at 415V, 50 Hz (kA)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
DM160	100.0	65	**SL97123OOOO**	**15080**	1
	120.0	65	**SL97703OOOO**	**15080**	1
	160.0	65	**SL97124OOOO**	**15080**	1
DM250	200.0	65	**SL97551OOOO**	**18720 ▲**	1
	230.0	65	**SL97552OOOO**	**18720 ▲**	1
	250.0	65	**SL97553OOOO**	**18720 ▲**	1
DM400	275.0	65	**SL97554OOOO**	**22070 ▲**	1
	325.0	65	**SL97555OOOO**	**22070 ▲**	1
	350.0	65	**SL97556OOOO**	**22070 ▲**	1
	400.0	65	**SL97557OOOO**	**22070 ▲**	1

▲ - Spreader Terminals are included.

Note - Type 2 co-ordination chart for DOL and Star-Delta starting, as per IEC60947 - Part 4, is available on request

Accessories for DM16 MCCB

Description	Internal			Description	External		
	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)		Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Aux. Contact - 1 C/O - Right	**SL97023OOOO**	**490**	1	DM16 ROM - Direct	**SL97044OOOO**	**710**	1
Aux. Contact - 1 C/O - Left	**SL97025OOOO**	**490**	1				
Trip Alarm Contact - Right	**SL97037OOOO**	**500**	1				
Shunt Release - 240 / 415V AC, 110V DC - Left	**SL97042OOOO**	**500**	1				

Accessories for DM100 MCCB

Description	Internal			Description	External		
	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)		Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
DM100 Aux. Contact - 1 C/O - Right	**SL97296OOOO**	**770**	1	DM100 Spreader Terminals - 3 Pole	**ST98047OOOO**	**320**	Set of 6
DM100 Aux. Contact - 1 C/O - Left	**SL97297OOOO**	**770**	1	DM100 Spreader Terminals - 4 Pole	**ST98060OOOO**	**420**	Set of 8
DM100 Trip Alarm Contact - Right	**SL97298OOOO**	**800**	1	DM100 S S Enclosure	**ST29967OOOO**	**1320**	1
DM100 Shunt Release - 240V AC - Left	**SL97299OMOO**	**870**	1	DM100 - ROM - Extended - 3 & 4 Pole - New look	**CM99103OOOO**	**1150**	1
DM100 Shunt Release - 24V DC - Left	**SL97299O4OO**	**880**	1				
DM100 Under Voltage Release - 240V AC - Left	**SL97611OOOO**	**1170**	1				

Accessories for DM160 MCCB

Description	Internal			Description	External		
	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)		Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Aux. Contact - 2 C/O - Left	**SL94329OOOO**	**1870**	1	DM160 ROM - Ext new look	**CM99102OOOO**	**1600**	1
Aux. Contact - 2 C/O - Right	**SL94330OOOO**	**1870**	1				
Shunt Release - 415V AC - Right	**SL94331ODOO**	**1770**	1				
Shunt Release - 240V AC - Right	**SL94331OBOO**	**1770**	1				
Under Voltage Release - 415V AC - Left	**SL94332DOOO**	**1770**	1				
Under Voltage Release - 240V AC - Left	**SL94332BOOO**	**1770**	1				

MOULDED CASE CIRCUIT BREAKERS

Accessories for DM250 / 400 & DH400 / 630 MCCB

Description	Internal			Description	External		
	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)		Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Aux. Contact - 2 C/O	**SL97573OOOO**	**1260**	1	DM250/400 & DH400 / 630	**CM99101OOOO**	**2630**	1
Trip Alarm Contact - Right	**SL97574OOOO**	**1200**	1	ROM Extended - New Look			
Shunt Release - 415V AC, 220V DC	**SL97575OOOO**	**1380**	1	DM250/400 & DH400 - ROM	**SL97562OOOO**	**1080**	1
Shunt Release - 240V AC, 110V DC	**SL97576OOOO**	**1380**	1	DH 630 - ROM	**SL97979OOOO**	**1290**	1
Under Voltage Release - 415V AC - Left	**SL97579OOOO**	**1600**	1	DM250/400 Spreader Terminals - 3 Pole	**ST98045OOOO**	**2000**	Set of 6
Under Voltage Release - 240V AC - Left	**SL97580OOOO**	**1600**	1	DM250/400 Terminals Shroud - 3 Pole	**SL97563OOOO**	**580**	Set of 2

DTH MCCB

3 Pole (for Distribution Application)					
Type	Current Rating (A)	Breaking Capacity Icu at 415V, 50 Hz (kA)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
DTH630	360-500	50	**SL94470OOOO**	**36590**	1
	460-630	50	**SL94471OOOO**	**36590**	1
DTH800	600-800	50	**SL94472OOOO**	**36860**	1

3 Pole (for Induction Furnace Application)					
Type	Magnetic Release Range (A)	Breaking Capacity Icu at 415V, 50 Hz (kA)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
DTH800 - Instantaneous	360	50	**SB95052OOOO**	**36860**	1
	550	50	**SB95053OOOO**	**36860**	1
	850	50	**SB95054OOOO**	**36860**	1
	1050	50	**SB95055OOOO**	**36860**	1

Accessories for DTH MCCB

Description	Internal			Description	External		
	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)		Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
DTH Aux. Contact - 2 C/O	**SL94217OOOO**	**1660**	1	DTH ROM - Direct	**SL94337OOOO**	**1760**	1
DTH Shunt Release - 415V AC, 220V DC - Right	**SL98526OOOO**	**1850**	1				
DTH Shunt Release - 240V AC, 110V DC - Right	**SL98534OOOO**	**1850**	1				
DTH Under Voltage Release - 415V AC - Left	**SL98548OOOO**	**1850**	1				
DTH Under Voltage Release - 240V AC - Left	**SL98545OOOO**	**1850**	1				
DTH UV Release - 110V AC - Left	**SL98543OOOO**	**1850**					

Earth Fault Module

Earth Fault Protection

Type	Range (A)	Cat. No.	M.R.P. (₹) Per Unit	CT	Std. Pkg. (Nos.)
GF1	100, 125, 160, 200	**ST27745OOOO**	**6760**	Buit in CBCT	1
GF2	250, 400	**ST27746OOOO**	**10270**	Buit in CBCT	1
GF11	630, 800	**ST28594OOOO**	**6760 # #**	External CT required	1

 # # - Required external CT (% VA, 5P10), secondary rating 1A or 5A.
CTs to be procured separately.

SWITCH DISCONNECTOR FUSE UNITS

Features offered by F-line SDFs

- Range 32A to 800A, 415V, AC 23A
- TPN and FP version
- Suitable for cylindrical / DIN fuses
- User friendly Telescopic shaft for handle
- DIN rail mounting up to 100A
- Conforming to IEC 60947-3, IS/IEC 60947-3

Features offered by FN SDFs

- Range 32A to 800A, 415V, AC 23A
- TP / TPN / FP Versions
- Suitable for cylindrical / DIN / Bolted fuses
- Available in interior / in Sheet Steel Enclosures
- Conforming to IS/IEC 60947-3 & IEC 60947-3

F-line Type FNX suitable for DIN fuses in open execution

Rated Current (A)	Suitable HRC Fuse		Type TPN				Type Four Pole			
	Type	(A)	Type	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)	Type	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
32	HF	2 to 32	FNX 32 TPN / FP	**SK96903**	**1540**	1	FNX 32 TPN / FP	**SK96903**	**1540**	1
63	HF	2 to 63	FNX 63 TPN / FP	**SK96904**	**2120**	1	FNX 63 TPN / FP	**SK96904**	**2120**	1
100	HN Size 000	63 to 100	FNX 100 TPN / FP	**SK96906**	**4420**	1	FNX 100 TPN / FP	**SK96906**	**4420**	1
125	HN Size 00/000	63 to 125	FNX 125 TPN	**SK95806**	**5850**	1	FNX 125 FP	**SK95814**	**6740**	1
160	HN Size 00/000	63 to 160	FNX 160 TPN	**SK95807**	**6770**	1	FNX 160 FP	**SK95815**	**7660**	1
200	HN Size 0	80 to 200	FNX 200 TPN	**SK95808**	**7280**	1	FNX 200 FP	**SK95816**	**8100**	1
250	HN Size 1	125 to 250	FNX 250 TPN	**SK95809**	**9780**	1	FNX 250 FP	**SK95817**	**10570**	1
315	HN Size 1	125 to 315	FNX 315 TPN	**SK95810**	**12090**	1	FNX 315 FP	**SK95818**	**12850**	1
400	HN Size 2	200 to 400	FNX 400 TPN	**SK95811**	**14570**	1	FNX 400 FP	**SK95819**	**15310**	1
630	HN Size 3	315 to 630	FNX 630 TPN	**SK95812**	**22440**	1	FNX 630 FP	**SK95820**	**23330**	1
800	HN Size 3	315 to 800	FNX 800 TPN	**Sk95813**	**24460**	1	FNX 800 FP	**SK95821**	**26470**	1

Type FN (TPN) suitable for DIN fuses

Rated Current (A)	Suitable HRC Fuse		Open Execution				In Sheet Steel Enclosure			
	Type	(A)	Type	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)	Type	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
32	HF	2 to 32	FN 32 TPN / FP	**SK95518**	**1540**	1	FN 32 TPN / FP	**SK95612**	**3300**	1
63	HF	2 to 63	FN 63 TPN / FP	**SK95421**	**2120**	1	FN 63 TPN / FP	**SK95613**	**4150**	1
100	HN Size 000	63 to 100	FN 100 TPN	**SK95568**	**4610**	1	FN 100 TPN	**SK95569**	**6650**	1
125	HN Size 00/000	63 to 125	FN 125 TPN	**SK95001**	**5850**	1	FN 125 TPN	**SK95005**	**7800**	1
160	HN Size 00/000	63 to 160	FN 160 TPN	**SK95713**	**6770**	1	FN 160 TPN	**SK95715**	**8600**	1
200	HN Size 0	80 to 200	FN 200 TPN	**SK95418**	**7280**	1	FN 200 TPN	**SK95511**	**9700**	1
250	HN Size 1	125 to 250	FN 250 TPN	**SK95642**	**9780**	1	FN 250 TPN	**SK95681**	**12200**	1
315	HN Size 1	125 to 315	FN 315 TPN	**SK95461**	**12090**	1	FN 315 TPN	**SK95514**	**14600**	1
400	HN Size 2	200 to 400	FN 400 TPN	**SK95481**	**14570**	1	FN 400 TPN	**SK95515**	**16700**	1
630	HN Size 3	315 to 630	FN 630 TPN	**SK95521**	**22440**	1	FN 630 TPN	**SK95547**	**26400**	1
800	HN Size 3	315 to 800	FN 800 TPN	**SK95679**	**24460**	1	FN 800 TPN	**SK95705**	**29300**	1

HRC FUSE LINKS AND FUSE BASES

- Conforms to IEC 60269-2, IS 13703 part 2
- Range : 2A to 800A, 415V, AC 50Hz
- Type : DIN (63A to 800A), Cylindrical (2A to 63A) & Bolted (2A to 630A)
- Energy efficient Fuse Links

Cylindrical Fuse Links Type HF

Rating (A)	Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
2	Suitable for Type FN 32 / 63 / FNX 32 / 63 Switch Disconnector Fuse Units. Also for HCO 32 Fuse base	**SF90144**	**81**	30
4		**SF90145**	**81**	30
6		**SF90146**	**81**	30
8		**SF90147**	**81**	30
10		**SF90148**	**81**	30
16		**SF90150**	**81**	30
20		**SF90151**	**81**	30
25		**SF90152**	**81**	30
32		**SF90142**	**85**	30
40	Suitable for Type FN 63 / FNX 63 Switch Disconnector Fuse Units. Also for HC 63 Fuse base	**SF90143**	**87**	30
50		**SF90158**	**162**	30
63		**SF90159**	**198**	30

DIN Type Fuse Links Type HN

Rating (A)	Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
	Size 000 :			
63	Suitable for Type FA-C 100 Switch fuse units and type FN 100/125/160 / FNX 100/125/160 Switch Disconnector Fuse Units. Also for HB 125 Fuse base	**SF94940**	**233**	3
80		**SF94941**	**233**	3
100		**SF94942**	**233**	3
New 125		**SF94946**	**263**	3
	Size 00 :			
63	Suitable for Type FA-C 100 Switch fuse units and type FN 100/125/160 / FNX 125/160 Switch Disconnector Fuse Units. Also for HB 125 Fuse base	**SF94027**	**358**	3
80		**SF94028**	**358**	3
100		**SF94029**	**358**	3
125		**SF94030**	**394**	3
160		**SF94939**	**421**	3
	Size 0 :			
80	Suitable for Type FN 200 / FNX 200 Switch Disconnector Fuse Units. Also for HB 250 Fuse base	**SF94128**	**454**	3
100		**SF94129**	**454**	3
125		**SF94130**	**454**	3
160		**SF94131**	**454**	3
200		**SF94132**	**470**	3
	Size 1:			
125	Suitable for Type FN 250/315 / FNX 250/315 Switch Disconnector Fuse Units. Also for HB 250 Fuse base	**SF94230**	**538**	3
160		**SF94231**	**538**	3
200		**SF94232**	**538**	3
250		**SF94233**	**607**	3
315		**SF94234**	**748**	3
	Size 2:			
200	Suitable for Type FN 400 / FNX 400 Switch Disconnector Fuse Units. Also for HB 800 Fuse base	**SF94332**	**781**	3
250		**SF94333**	**781**	3
315		**SF94334**	**796**	3
400		**SF94335**	**796**	3
	Size 3:			
315	Suitable for Type FN 630/800 / FNX 630/800 Switch Disconnector Fuse Units. Also for HB 800 Fuse base	**SF94434**	**1267**	1
400		**SF94435**	**1267**	1
500		**SF94436**	**1267**	1
630		**SF94437**	**1304**	1
800		**SF94938**	**1554**	1

Bolted Fuse Links Type HG and HQ

Type	Fixing Method	Size	Rating (A)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
HG	Offset, staggered	F1	2	**ST30725**	**36**	20
			4	**ST30726**	**36**	20
			6	**ST30727**	**36**	20
			10	**ST30728**	**36**	20
			16	**ST30729**	**36**	20
			20	**ST30730**	**42**	20
			25	**ST30731**	**42**	20
			32	**ST30732**	**42**	20
HQ	Offset	A1	2	**ST30736**	**51**	20
			4	**ST30737**	**51**	20
			6	**ST30738**	**51**	20
			10	**ST30739**	**51**	20
			16	**ST30740**	**51**	20
			20	**ST30741**	**51**	20
			25	**ST30742**	**60**	20
			32	**ST30743**	**60**	20
		A1L	20	**ST34527**	**62**	20
			25	**ST34528**	**62**	20
			32	**ST34529**	**62**	20
			50	**ST35827**	**71**	20
			63	**ST35828**	**71**	20
		A2	4	**ST30747**	**45**	10
			6	**ST30748**	**45**	10
			10	**ST30749**	**45**	10
			16	**ST30750**	**45**	10
			20	**ST30751**	**45**	10
			25	**ST30752**	**45**	10
			32	**ST30753**	**45**	10
		A3	35	**ST30759**	**81**	10
			50	**ST30760**	**81**	10
			63	**ST30761**	**81**	10
		A4	80	**ST30767**	**151**	10
			100	**ST30768**	**151**	10
			125	**ST30769**	**186**	10
			160	**ST35829**	**193**	10
	Centre Tag, 2 holes	B1	80	**ST30774**	**186**	10
			100	**ST30775**	**186**	10
			125	**ST30776**	**211**	10
		B2	125	**ST30777**	**217**	3
			160	**ST30778**	**217**	3
			200	**ST30779**	**217**	3
		B3	250	**ST30781**	**317**	3
			315	**ST30782**	**330**	3
		B4	355	**ST30783**	**591**	3
			400	**ST30784**	**591**	3
	Centre Tag, 4 holes	C2	400	**ST30785**	**812**	1
			500	**ST30786**	**834**	1
			630	**ST30787**	**1173**	1
		C3	630	**ST30788**	**1381**	1

Fuse Pulling Handle

Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Fuse pulling handle for HF-Fuselinks from 2A-63A	**SK91185**	**120**	1
Insulated fuse pulling handle for Type HN fuse links from 63A-800A	**SF90126**	**458**	1

SWITCH DISCONNECTOR FUSE UNITS

Type FN (TPN) suitable for Bolted fuses

Rated Current (A)	Open Execution				
	Type	Fuse Size (Bolted Type)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg (Nos.)
32	FN 32 TPN	**A1L**	**SK95653**	**1590**	1
63	FN 63 TPN	**A1L**	**SK95651**	**2180**	1
100	FN 100 TPN	**A3 / A4**	**SK95570**	**4370**	1
125	FN 125 TPN	**A4**	**SK95009**	**5500**	1
160	FN 160 TPN	**A4**	**SK95714**	**5700**	1
200	FN 200 TPN	**B2**	**SK95588**	**6610**	1
250	FN 250 TPN	**B2 / B3**	**SK95682**	**8930**	1
315	FN 315 TPN	**B3**	**SK95590**	**11240**	1
400	FN 400 TPN	**B4**	**SK95591**	**13220**	1
630	FN 630 TPN	**C2**	**SK95592**	**20510**	1

Type FN (TPN) with CE handle suitable for cylindrical fuses

Rated Current (A)	Type	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
32	FN 32 SDF with 'CE' handle	**SK95703**	**1430**	1
63	FN 63 SDF with 'CE' handle	**SK95704**	**1980**	1

Switch Interiors for Panel Mounting

Rating (A)	Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
32	FFO TP Interior	**SK91100**	**940**	1
63	FF TP Interior	**SK91000**	**1420**	1
63	FAC 63 TPN	**SK95156**	**2630**	1
100	FAC 100 TPN	**SK95157**	**4310**	1

Type FN (TP) suitable for DIN fuses

Rated Current (A)	Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
100	FN 100 TP	**ST30287**	*	1
125	FN 125 TP	**ST27894**	*	1
200	FN 200 TP	**ST27895**	*	1
250	FN 250 TP	**ST31731**	*	1
315	FN 315 TP	**ST27897**	*	1
400	FN 400 TP	**ST27898**	*	1
630	FN 630 TP	**ST27899**	*	1

* Available on request

SWITCH DISCONNECTOR ISOLATOR (TPN)

Type FN & FG

Rated Current (A)	Type	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
32	FN 32 TPN	**SK95541**	**1450**	1
63	FN 63 TPN	**SK95540**	**2090**	1
100	FN 100 TPN	**SK95571**	**3980**	1
125	FN 125 TPN	**SK95405**	**5050**	1
200	FN 200 TPN	**SK95607**	**6250**	1
250	FN 250 TPN	**SK95683**	**8850**	1
315	FN 315 TPN	**SK95609**	**9940**	1
400	FN 400 TPN	**SK95610**	**13040**	1
630	FN 630 TPN	**SK95611**	**19040**	1
800	FN 800 TPN	**SK95551**	**21820**	1
1000	FN 1000 TPN	**SK95710**	**26690**	1
1000	FN 1000H TPN	**SK95992**	**31910**	1
1250	FG 1250 TPN	**ST30198**	**41130**	1
1600	FG 1600 TPN	**ST30199**	**62240**	1
2000	FG 2000 TPN	**ST30200**	**151170**	1
2500	FG 2500 TPN	**ST30201**	**157835**	1
3150	FG 3150 TPN	**ST30202**	**177840**	1

New

Note: The above units will not accomodate fuses

FUSE BASES

Fuse Bases suitable for Bolted Fuse Links

Rated Current (A)	Type	Connection Method	Fuse Type	Suitable Fuse Range (A)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
20	HD 20H	Both side cable	F1	2-20	**ST30772**	**83**	10
	HD 20P	Both side busbar	F1	2-20	**ST30773**	**83**	10
	HD 20B	Top busbar & bottom cable	F1	2-20	**ST30766**	**83**	10
32	HD 32H	Both side cable	F1	2-32	**ST30733**	**105**	10
	HD 32P	Both side busbar	F1	2-32	**ST30734**	**105**	10
	HD 32B	Top busbar & bottom cable	F1	2-32	**ST30735**	**105**	10
	HK 32H	Both side cable	A2	4-32	**ST30754**	**169**	10
	HK 32B	Top busbar & bottom cable	A2	4-32	**ST30755**	**183**	10
63	HK 63H	Both side cable	A3	35-63	**ST30762**	**221**	10
	HK 63B	Top busbar & bottom cable	A3	35-63	**ST30763**	**249**	10
125	HK 125H	Both side cable	A4	80-125	**ST30770**	**604**	10
	HK 125B	Top busbar & bottom cable	A4	80-125	**ST30771**	**686**	10

Fuse Bases suitable for Cylindrical / DIN Type HRC fuse links Type HF & HN

Rated Current (A)	Type	Suitable Fuse Type	Suitable Fuse Range (A)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
32	HCO 32	HF	2-32	**SK91314**	**147**	10
63	HC 63	HF	2-63	**SK91043**	**187**	10
160	HB 160	HN-Size 000 & 00	63-160	**SK90405**	**301**	12
250	HB 250	HN-Size 0 & 1	80-250	**SK90406**	**580**	3
800	HB 800	HN-Size 2 & 3	200-800	**SK91051**	**1145**	3

ACCESSORIES FOR SWITCH DISCONNECTOR FUSE UNITS

Accessories for FN

Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
For FN 32 / 63			
Auxiliary Contact Kit	**SK91302**	**372**	1
Terminal Shroud Kit	**SK91190**	**102**	1
Handle Assembly - A	**SK91257**	**302**	1
Handle Assembly - B	**SK91277**	**302**	1
Handle Assembly - CE	**SK91337**	**168**	1
For FN 100 / 125 / 160			
Auxiliary Contact Kit	**SK91328**	**389**	1
Terminal Shroud Kit	**SK91137**	**140**	1
Mechanical Interlock Kit	**SK95232**	**938**	1
Switched Neutral Kit	**SK95233**	**2166**	1
Handle Assembly - A	**SK91258**	**565**	1
Handle Assembly - B	**SK91278**	**659**	1
Shaft Extension Kit	**SK95600**	**174**	1
For FN 200 / 250			
Auxiliary Contact Kit	**SK91329**	**504**	1
Terminal Shroud Kit	**SK91335**	**237**	1
Mechanical Interlock Kit	**SK95232**	**938**	1
Switched Neutral Kit	**SK95516**	**2200**	1
Interphase Barrier Kit - FN 200	**SK91343**	**219**	1
Handle Assembly - A	**SK91258**	**565**	1
Handle Assembly - B	**SK91278**	**659**	1
For FN 315 / 400 / 630 / 800			
Auxiliary Contact Kit*	**SK91330**	**504**	1
Terminal Shroud Kit - FN 315/400	**SK91346**	**237**	1
Termianal Shroud Kit - FN 630/800 *	**SK91347**	**237**	1
Mechanical Interlock Kit *	**SK95545**	**1072**	1
Switched Neutral Kit FN 315/400	**SK95517**	**2290**	1
Switched Neutral Kit FN 630/800 *	**SK95546**	**3080**	1
Interphase Barrier Kit - FN 315/400	**SK91344**	**232**	1
Interphase Barrier Kit - FN 630/800 *	**SK91345**	**232**	1
Shaft Extension Kit *	**SK91331**	**210**	1
Handle Assembly - A *	**SK91259**	**731**	1
Handle Assembly - B *	**SK91279**	**731**	1

*** Also suitable for switch-disconnector FN1000 & FN1000H**

Spare Front Housing Assemblies for FN (DIN fuses)

Rating (A)	Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
100	FN 100 Front housing assly	**ST31677**	**2819**	1
125	FN 125 Front housing assly	**ST31678**	**3297**	1
200	FN 200 Front housing assly	**ST31679**	**3765**	1
250	FN 250 Front housing assly	**ST31729**	**5116**	1
315	FN 315 Front housing assly	**ST31681**	**6169**	1
400	FN 400 Front housing assly	**ST31682**	**7775**	1
630	FN 630 Front housing assly	**ST31683**	**13955**	1

Accessories for FNX

Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
For FNX 32 / 63			
Auxiliary Contact Kit	**SK91537**	**170**	1
Handle Assembly	**SK91524**	**312**	1
Castell Lock	**SK91530**	**574**	1
Din Rail Assembly	**SK91617**	**75**	1
For FNX 100			
Auxiliary Contact Kit	**SK91538**	**327**	1
Handle Assembly	**SK91524**	**312**	1
Castell Lock	**SK91530**	**574**	1
Din Rail Assembly	**SK91617**	**75**	1
For FNX 125 / 160			
Auxiliary Contact Kit	**SK91539**	**336**	1
Handle Assembly	**SK91525**	**590**	1
Castell Lock	**SK91531**	**1015**	1
Mechanical Interlock kit	**SK95232**	**938**	1
For FNX 200 / 250			
Auxiliary Contact Kit	**SK91540**	**441**	1
Handle Assembly	**SK91525**	**590**	1
Castell Lock	**SK91531**	**1015**	1
Mechanical Interlock kit	**SK95232**	**938**	1
For FNX 315 / 400 / 630 / 800			
Auxiliary Contact Kit	**SK91541**	**441**	1
Handle Assembly	**SK91526**	**737**	1
Castell Lock	**SK91531**	**1015**	1
Mechanical Interlock kit	**SK95545**	**1072**	1

Castell Lock for FN - SDF

Rating (A)	Description & Cat. No.		M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
From FN 100 to FN 250	A = SK00333 C = SK00335	B = SK00334 D = SK00336	**1165**	1
From FN 315 to FN 800	A = SK00345 C = SK00347	B = SK00346 D = SK00348	**1165**	1

Spares & Accessories for Switch Interiors

Description	Rating (A)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
FAC - Handle Assembly	63 / 100	**SK90453**	**64**	1
FFO / FF Handle Assembly	32 / 63	**SK90998**	**75**	1
FFO / FF Handle Coupler & Door Interlock	32 / 63	**SK91079**	**383**	1

Spare Contact Kits for FN

Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Spare Contact Kit for FN 400	**SK91377**	**1474**	1
Spare Contact Kit for FN 630	**SK91378**	**2202**	1

ON LOAD CHANGEOVER SWITCHES - (63A to 1600A)

Type C-line in Open Execution

New

Rated Current (A)	Type	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
125	CO2-125	**CO21250OOOO**	**7900**	1
160	CO2-160	**CO21600OOOO**	**8800**	1
200	CO2-200	**CO22000OOOO**	**10620**	1
250	CO3-250	**CO32500OOOO**	**15020**	1
315	CO3-315	**CO33150OOOO**	**15900**	1
400	CO4-400	**CO44000OOOO**	**23000**	1
630	CO4-630	**CO46300OOOO**	**27350**	1
800	CO5-800	**CO58000OOOO**	**40000**	1
1000	CO5-1000	**CO51000OOOO**	**65800**	1

Type FG / FGC (TPN) (63A, 1250A, 1600A)

Rated Current (A)	Type	Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
63	FG 63	Line mounting with 8 O/P terminals	**ST26510OOOO**	**4500**	1
1250	FGC 1250	Back to Back mtg. with 4 O/P terminals	**ST27460OOOC**	**96200**	1
1600	FG 1600	Back to Back mtg. with 8 O/P terminals	**ST27470OOOO**	**134000**	1

Type C-line in SS Enclosure

New

Rated Current (A)	Type	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
125	CO2-125	**CO21250OSOO**	**10700**	1
160	CO2-160	**CO21600OSOO**	**11750**	1
200	CO2-200	**CO22000OSOO**	**13550**	1
250	CO3-250	**CO32500OSOO**	**18900**	1
315	CO3-315	**CO33150OSOO**	**19800**	1
400	CO4-400	**CO44000OSOO**	**28900**	1
630	CO4-630	**CO46300OSOO**	**33500**	1
800	CO5-800	**CO58000OSOO**	**48500**	1
1000	CO5-1000	**CO51000OSOO**	**82700**	1

Note: Does not required separate cable gland box

New

Type C-line in Fused Version for Open Execution
Fuse Mountable Kit

Rated Current (A)	Suitable Changeover	Fuse Mountable Kit	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
125	CO2-125	CO Frame 2 125A	**CX21250OODO**	**2920**	1
160	CO2-160	CO Frame 2 160A	**CX21600OODO**	**3870**	1
200	CO2-200	CO Frame 2 200A	**CX22000OODO**	**4935**	1
250	CO3-250	CO Frame 3 250A	**CX32500OODO**	**5200**	1
315	CO3-315	CO Frame 3 315A	**CX33150OODO**	**5450**	1
400	CO4-400	CO Frame 4 400A	**CX44000OODO**	**8100**	1

Spares & Accessories for C/Os & SDs Type C-line / FG / FGC

Auxiliary Contact

Auxiliary Contact Block suitable for	Auxiliary Contact	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
C/O Frame 2 (125-200A) Kit	2 NO + 2 NC	**CX20002OOOO**	**640**	1
C/O Frame 3 (250-315A) Kit	2 NO + 2 NC	**CX30002OOOO**	**695**	1
C/O Frame 4 (400-630A) Kit	2 NO + 2 NC	**CX40002OOOO**	**735**	1
C/O Frame 5 (800-1000A) Kit	2 NO + 2 NC	**CX50002OOOO**	**840**	1
FG & FGC 63 - 1600A	1 NO + 1 NC	**ST26512OOOO**	**410**	1
	2 NO + 2 NC	**ST26542OOOO**	**720**	1

Operating Handle

Operating Handle suitable for	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
C/O Frame 2 & 3 (125-315A)	**CX30001OOOO**	**845**	1
C/O Frame 4 (400-630A)	**CX40001OOOO**	**1110**	1
C/O Frame 5 (800-1000A)	**CX50001OOOO**	**1210**	
FG C/O 63A	**ST41868OOOO**	**720**	1
FG Isolator 1000 / 1250 / 1600A	**ST26591OOOO**	**2680**	1
FGC C/O 1000 / 1250A	**ST26591OOOC**	**2680**	1

POWER CONTACTORS

M-line SUPERNOVA™

Conform to IS/IEC 60947-4-1, IEC 60947-4-1

3 Pole Power Contactors - Type MX

Type	AC1 Rating (415V)	AC3 Rating (415V)	Aux. Contact	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)	Type	AC1 Rating (415V)	AC3 Rating (415V)	Aux. Contact	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
For AC control (Std. Coil Voltage - 24, 110, 240, 415V, 50Hz)							**For DC control (Std. Coil Voltage - 24, 110, 220V)**						
MX 06	20A	6A	1 NO	**CS94012**	**610**	10	MX 06	20A	6A	1 NO	**CS94021**	**935**	10
MX 06	20A	6A	1 NC	**CS94013**	**610**	10	MX 06	20A	6A	1 NC	**CS94022**	**935**	10
MX 09	20A	9A	1 NO	**CS94014**	**645**	10	MX 09	20A	9A	1 NO	**CS94023**	**970**	10
MX 09	20A	9A	1 NC	**CS94015**	**645**	10	MX 09	20A	9A	1 NC	**CS94024**	**970**	10
MX 12	20A	12A	1 NO	**CS94016**	**700**	10	MX 12	20A	12A	1 NO	**CS94025**	**1020**	10
MX 12	20A	12A	1 NC	**CS94017**	**700**	10	MX 12	20A	12A	1 NC	**CS94026**	**1020**	10

3 Pole Power Contactors - Type MNX

AC3 Rating (A)	AC1 Rating (A)	Type	Aux. Contacts	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
9	25	MNX 9	1 NO	**CS94106**	**715**	10
			1 NC	**CS94107**	**715**	10
12	30	MNX 12	1 NO	**CS94108**	**810**	10
			1 NC	**CS94109**	**810**	10
18	30	MNX 18	1 NO	**CS94100**	**890**	10
			1 NC	**CS94101**	**890**	10
22	32	MNX 22	1 NO	**CS94980**	**1025**	10
			1 NC	**CS94981**	**1025**	10
25	45	MNX 25	#	**CS94110**	**1200**	10
32	55	MNX 32	#	**CS94111**	**2475**	10
40	55	MNX 40	#	**CS94190**	**3650**	10
45	80	MNX 45	2 NO + 2 NC	**ST19000**	**4750**	1
50	80	MNX 50	2 NO + 2 NC	**ST19001**	**4825**	1
70	100	MNX 70	2 NO + 2 NC	**ST19002**	**6680**	1
80	100	MNX 80	2 NO + 2 NC	**ST19003**	**8200**	1
95	160	MNX 95	2 NO + 2 NC	**CS94136**	**9700**	1
110	160	MNX 110	2 NO + 2 NC	**CS94137**	**11000**	1
140	160	MNX 140	2 NO + 2 NC	**CS94138**	**15000**	1
185	250	MNX 185	2 NO + 2 NC	**CS94139**	**20300**	1
225	300	MNX 225	2 NO + 2 NC	**CS94140**	**23000**	1
265	350	MNX 265	2 NO + 2 NC	**CS94142**	**27500**	1
325	400	MNX 325	2 NO + 2 NC	**CS94143**	**32500**	1
400	425	MNX 400	2 NO + 2 NC	**CS94144**	**40000**	1
550	650	MNX 550	2 NO + 2 NC	**CS94145**	**57000**	1
650	850	MNX 650	2 NO + 2 NC	**CS96327**	**71000**	1

3 Pole Power Contactors - Type ML

AC3 Rating (A)	AC1 Rating (A)	Type	Aux. Contacts	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
25	25	ML 1.5	2 NO + 2 NC	**SS91851**	**1700**	1
32	40	ML 2	2 NO + 2 NC	**SS90701**	**3150**	1
40	45	ML 3	2 NO + 2 NC	**SS90721**	**4650**	1
70	100	ML 4	2 NO + 2 NC	**SS90910**	**7600**	1
110	125	ML 6	2 NO + 2 NC	**SS90921**	**12000**	1
200	250	ML 10	2 NO + 2 NC	**SS90935**	**26500**	1
300	400	ML 12	2 NO + 2 NC	**SS91010**	**29000**	1

Notes:

1. **# Add on blocks can be ordered separately**
2. **Std. Coil Voltage :**
   MNX / MO / ML - 110V, 220V, 240V and 415V, 50Hz
   MCX - 220V, 240V, 50Hz
3. **For Ordering Suffix please refer page 25, Table B**
4. **For Ordering MX accessories please refer page 23**
5. ***Ordering Suffix for MCX21 / MCX22; FOOO - 240V AC, ROOO - 415V AC**

3 Pole Power Contactors - Type MO

New

AC3 Rating (A)	AC1 Rating (A)	Type	Aux. Contacts	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
9	30	MO 9	#	**CS94564**	**620**	10
12	35	MO 12	#	**CS94565**	**710**	10
18	40	MO 18	#	**CS94566**	**800**	10
25	45	MO 25	#	**CS94567**	**1200**	10
32	50	MO 32	#	**CS94568**	**2475**	10
40	50	MO 40	#	**CS94569**	**3650**	10
45	50	MO 45	#	**CS94570**	**4500**	10
50	65	MO 50	#	**CS94572**	**4575**	1
60	80	MO 60	#	**CS94573**	**5350**	1
70	100	MO 70	#	**CS94574**	**6430**	1
80	125	MO 80	#	**CS94576**	**7950**	1
95	125	MO 95	#	**CS94577**	**9450**	1
110	140	MO 110	#	**CS94578**	**10750**	1

4 Pole Power Contactors - Type MCX

Type	Aux Contacts	AC-1 Rating (A)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
MCX 01	-	16	**CS94316**	**950**	10
MCX 02	-	25	**CS94317**	**1050**	10
MCX 03	-	32	**CS94318**	**1100**	10
MCX 04	-	40	**CS94319**	**1655**	10
MCX 11	-	50	**CS94657**	**2100**	1
MCX 12	-	63	**CS94656**	**4000**	1
MCX 21*	2 NO + 2 NC	80	**CS94653**	**5700**	1
MCX 22*	2 NO + 2 NC	100	**CS94654**	**6500**	1
MCX 31	1 NO + 1 NC	130	**CS94320**	**9000**	1
MCX 32	1 NO + 1 NC	160	**CS94321**	**13000**	1
MCX 33	1 NO + 1 NC	200	**CS94322**	**16000**	1
MCX 34	1 NO + 1 NC	255	**CS94323**	**18000**	1
MCX 41	2 NO + 2 NC	325	**CS94292**	**29500**	1
MCX 42	2 NO + 2 NC	360	**CS94286**	**32000**	1
MCX 43	2 NO + 2 NC	400	**CS94287**	**40000**	1
MCX 44	2 NO + 2 NC	500	**CS94288**	**47000**	1
MCX 45	2 NO + 2 NC	600	**CS94289**	**56000**	1
MCX 46	2 NO + 2 NC	700	**CS94290**	**67000**	1

4 Pole Mechanically Interlocked Contactors

Type	Aux Contacts	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Two MCX 11	#	**CS94362**	**5200**	1
Two MCX 12	#	**CS94365**	**9000**	1
MCX 11 - MCX 12	#	**CS94363**	**7100**	1

POWER CONTACTORS ACCESSORIES

Add-on Auxiliary contact blocks for MNX, MCX and ML

Mounting Position	Contacts	Contactor	Cat. No.	M.R.P. (₹) Per Unit
Top	4 NO	MNX 9-40/ MCX 01-12	**CS94112**	**300**
	3 NO + 1 NC		**CS94113**	**300**
	2 NO + 2 NC		**CS94114**	**300**
	1 NO + 3 NC		**CS94115**	**300**
	4 NC		**CS94116**	**300**
	2 NO		**CS94117**	**200**
	1 NO + 1 NC		**CS94118**	**200**
	2 NC		**CS94119**	**200**
	1 NO		**CS94120**	**100**
	1 NC		**CS94121**	**100**
First Left	1 NO + 1 NC	MNX 9-40/ MCX 01-04	**CS94220**	**300**
First Right	1 NO + 1 NC		**CS94221**	**300**
First Left	1 NO + 1 NC	MNX 45-80/ MCX 11-22	**CS94201**	**300**
First Right	1 NO + 1 NC		**CS94202**	**300**
Second Left	1 NO + 1 NC		**CS94203**	**300**
Second Right	1 NO + 1 NC		**CS94204**	**300**
First Left	1 NO + 1 NC	MNX 95-650/ MCX 31-46	**CS94205**	**350**
First Right	1 NO + 1 NC		**CS94206**	**350**
Second Left	1 NO + 1 NC		**CS94207**	**350**
Second Right	1 NO + 1 NC		**CS94208**	**350**
Side Left / Right	1 NO + 1 NC	ML 4/6	**SS91494**	**375**
Side Left / Right	1 NO + 1 NC	ML 10/12	**SS91474**	**375**

Surge Suppressor for MNX & MCX

Contactor	Cat. No.	M.R.P. (₹) Per Unit
MNX 9-40 / MCX 01-04	**CS94166***	**300**
MNX 45-80 / MCX 11-22	**CS94163***	**300**
MNX 95-225 / MCX 31-34	**CS94164#**	**1075**
MNX 265-400 / MCX 41-44	**CS94165#**	**1450**

Ordering Suffix * 110-240V: BOOO, 415V: DOOO
110V: AOOO, 220-240V: BOOO, 360-525V: DOOO

Add-on Auxiliary contact blocks for MO

Mounting Position	Contacts	Contactor	Cat. No.	M.R.P. (₹) Per Unit
Top	4 NO	MO 9-110	**CS94594**	**300**
	3 NO + 1 NC		**CS94595**	**300**
	2 NO + 2 NC		**CS94596**	**300**
	1 NO + 3 NC		**CS94597**	**300**
	4 NC		**CS94598**	**300**
	2 NO		**CS94591**	**200**
	1 NO + 1 NC		**CS94592**	**200**
	2 NC		**CS94593**	**200**
	1 NO		**CS94585**	**100**
	1 NC		**CS94586**	**100**
First Left	1 NO + 1 NC		**CS94580**	**300**
First Right	1 NO + 1 NC		**CS94581**	**300**
Second Left	1 NO + 1 NC		**CS94582**	**300**
Second Right	1 NO + 1 NC		**CS94583**	**300**

Mechanical Interlock Kit for MO and MNX

Contactor	Cat. No.	M.R.P. (₹) Per Unit
MO 9-110	**CS94584**	**305**
MNX 9-40	**CS94126**	**305**
MNX 45-80	**CS94197**	**1190**
MNX 95-140	**CS94198**	**1955**
MNX 185-225	**CS94199**	**2240**
MNX 265-650	**CS94200**	**2535**

Mechanically interlock kit for MCX

Type	Cat. No.	M.R.P. (₹) Per Unit
MCX 01 to MCX 04	**CS94126**	**305**
MCX 21 / MCX 22	**CS93095**	**1950**
MCX 31 to MCX 34	**SS94992**	**2100**
MCX 41 to MCX 46	**CS94301**	**3400**

CONTACTOR RELAYS

Type MX0

Rated Current	Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
For AC control std. Coil Voltage - 24, 110, 240, 415V, 50Hz				
AC-15 4A	MX0 40E (4 NO)	**CS94018**	**730**	10
	MX0 31E (3 NO + 1 NC)	**CS94019**	**730**	10
	MX0 22E (2 NO + 2 NC)	**CS94020**	**730**	10
	MX0 13E (1 NO + 3 NC)	**CS94041**	**730**	10
	MX0 04E (4 NC)	**CS94042**	**730**	10
For DC control std. Coil Voltage - 24, 110, 220V				
AC-15 4A	MX0 40E (4 NO)	**CS94027**	**960**	10
	MX0 31E (3 NO + 1 NC)	**CS94028**	**960**	10
	MX0 22E (2 NO + 2 NC)	**CS94029**	**960**	10
	MX0 13E (1 NO + 3 NC)	**CS94043**	**960**	10
	MX0 04E (4 NC)	**CS94044**	**960**	10

For Ordering Suffix please refer page 25, Table B

Add on Auxiliary Contact Block for MX

Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
MX - A1 02E - 2 NO	**CS94030**	**175**	10
MX - A1 11E - 1 NO + 1 NC	**CS94031**	**175**	10
MX - A1 02E - 2 NC	**CS94032**	**175**	10
MX - A1 40E - 4 NO	**CS94033**	**300**	10
MX - A1 31E - 3 NO + 1 NC	**CS94034**	**300**	10
MX - A1 22E - 2 NO + 2 NC	**CS94035**	**300**	10
MX - A1 13E - 1 NO + 3 NC	**CS94036**	**300**	10
MX - A1 04E - 4 NC	**CS94037**	**300**	10

Mechanically interlock kit for MX

Type	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
MX 06 to MX 09 / MX 0	**CS94038**	**300**	1

Surge Suppressor for MX

Type	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
MX 06 to MX 09 / MX 0 AC	**CS94039**	**300**	1

CONTACTOR RELAYS

Type MN0

Rated Current	Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
For AC control std. Coil Voltage - 24, 110, 240, 415V, 50Hz				
AC-15 4A	MN0 40E (4 NO)	**SS94660**	**950**	10
	MN0 31E (3 NO + 1 NC)	**SS94661**	**950**	10
	MN0 22E (2 NO + 2 NC)	**SS94662**	**950**	10
	MN0 13E (1 NO + 3 NC)	**SS94663**	**950**	10
	MN0 04E (4 NC)	**SS94664**	**950**	10
For DC control std. Coil Voltage - 24, 110, 220V				
AC-15 4A	MN0 40E (4 NO)	**SS94665**	**1500**	10
	MN0 31E (3 NO + 1 NC)	**SS94666**	**1500**	10
	MN0 22E (2 NO + 2 NC)	**SS94667**	**1500**	10
	MN0 13E (1 NO + 3 NC)	**SS94668**	**1500**	10
	MN0 04E (4 NC)	**SS94669**	**1500**	10

For Ordering Suffix please refer page 25, Table B

Add on Auxiliary Contact Block for MN Contactors

Contacts Type	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
4 NO	**SS94083**	**300**	10
3 NO + 1 NC	**SS94084**	**300**	10
2 NO + 2 NC	**SS94085**	**300**	10
1 NO + 3 NC	**SS94086**	**300**	10
4 NC	**SS94087**	**300**	10
2 NO	**SS94080**	**200**	10
1 NO + 1 NC	**SS94081**	**200**	10
2 NC	**SS94082**	**200**	10
1 NO	**SS94715**	**100**	10
1 NC	**SS94716**	**100**	10

Surge Suppressor for MN0

Type	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
MN0 AC	**SS94623**	**300**	1

Ordering Suffix 110-240V : BOOO
415V : DOOO

DEFINITE PURPOSE CONTACTORS

For Ordering Suffix please refer page 24

Single Pole Contactors Type MR

Standard Voltage 240V, 50Hz

Type	AC3 Rating (A)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
MR 11W	25A	**CS94176**	**500**	10
MR 11NW	25A	**CS94178**	**570**	10
MR 13	40A	**CS94992**	**550**	40

Ordering suffix BOOO - 240V, 50Hz

3 Pole Contactors Type MU

Type	AC3 Rating (A)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
MU 1	16A	**CS94007**	**1250**	10
MU 2	25A	**CS94008**	**1640**	10

For Overload Relays type MU please refer page no. 26

Capacitor Duty Contactors Type MPX

Standard Voltage 230V, 50Hz

Type	Built-in Auxiliary Contacts	kVAR Rating @ 400V, 3Ph, 50Hz	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
MPX 8	1 NO	8	**ST41807**	**1725**	1
MPX 12	1 NO	12.5	**ST41808**	**1850**	1
MPX 15	-	15	**ST41809**	**2400**	1
MPX 25	-	25	**ST41810**	**3100**	1
MPX 30	-	30	**ST41811**	**6150**	1
MPX 50	-	50	**ST41812**	**9500**	1
MPX 60	-	60	**ST41813**	**10850**	1

4 Pole Contactors Type MK1

Standard Coil Voltage 110, 220, 230 / 250, 360, 400 / 440V, 50Hz

Type	AC3 Rating (A)	Motor Output 3 Phase 415V, 50Hz		Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
		HP	KW			
MK 1	11A	5.5	7.5	**SS95200**	**855**	10

For Overload Relays type MK1 please refer page no. 26

Add on Auxiliary Contact Block for MU / MR / MPX

For Contactor	Description	Contacts Type	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
MU 1 / MU 2	Side mounted auxiliary contact block	1 NO + 1 NC	**SS94072**	**119**	10
		1 NC	**SS94074**	**94**	10
MR	Add on Single pole (AC11 - 4A)	1 NO	**CS94179**	**130**	10
MPX 8 / 12 / 15 / 25 / 30 / 50 / 60	Side Add on block	1 NC	**ST41818**	**450**	1
	Side Add on block	1 NO	**ST41819**	**450**	1
	Side Add on block	1 NO + 1 NC	**ST94985**	**595**	1

SPARES

Spare Contact Kit and Spare Coil

	Spare Contact kit		Spare Coil	
Type	Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit
MO 9	**CS96380**	**480**	**CS96317**	**390**
MO 12	**CS96381**	**620**		
MO 18	**CS96382**	**680**		
MO 25	**CS96383**	**700**		
MO 32	**CS96384**	**1155**		
MO 40	**CS96385**	**1560**		
MO 45	**CS96386**	**2055**		
MO 50	**CS96387**	**2200**	**CS96318**	**1055**
MO 60	**CS96388**	**2400**		
MO 70	**CS96389**	**2895**		
MO 80	**CS96390**	**3365**	**CS96319**	**1365**
MO 95	**CS96391**	**3610**		
MO 110	**CS96392**	**4205**		
MNX 9	**CS94123**	**480**	**CS94105**	**390**
MNX 12	**CS94124**	**620**		
MNX 18	**CS94125**	**680**		
MNX 22	**CS94269**	**690**		
MNX 25	**CS94127**	**700**		
MNX 32	**CS94128**	**1155**		
MNX 40	**CS94147**	**1560**		
MNX 45	**CS94149**	**2055**	**CS94192**	**1055**
MNX 50	**CS94150**	**2220**		
MNX 70	**CS94151**	**2895**		
MNX 80	**CS94152**	**3365**		
MNX 95	**CS94153**	**3610**	**CS94196**	**1365**
MNX 110	**CS94154**	**4205**		
MNX 140	**CS94155**	**5265**		
MNX 185	**CS94156**	**9200**	**CS94194**	**2775**
MNX 225	**CS94157**	**11855**		
MNX 265	**CS94159**	**12490**	**CS94195**	**3185**
MNX 325	**CS94160**	**16705**		
MNX 400	**CS94161**	**19300**		
MNX 550	**CS94162**	**29970**	**CS94193**	**12420**
MNX 650	**CS96336**	**31000**		
MCX 01 - 04	**-**	**-**	**CS94105**	**390**
MCX 11	**CS94077**	**1335**	**CS94009**	**391**
MCX 12	**CS94078**	**1955**		
MCX 21	**CS94330**	**3230**	**CS94192**	**1055**
MCX 22	**CS94331**	**3725**		
MCX 31	**CS94081**	**5400**	**CS94196**	**1365**
MCX 32	**CS94082**	**5565**		
MCX 33	**CS94083**	**6750**		
MCX 34	**CS94084**	**7470**		
MCX 41	**CS94295**	**16185**	**CS94195**	**3185**
MCX 42	**CS94296**	**21365**		
MCX 43	**CS94297**	**23035**		
MCX 44	**CS94298**	**25160**		
MCX 45	**CS94299**	**31645**	**CS94193**	**12420**
MCX 46	**CS94300**	**35700**		

	Spare Contact kit		Spare Coil	
Type	Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit
MU 1	**CS94010**	**479**	**CS94009**	**391**
MU 2	**CS94011**	**781**		
ML 0	**SS95301**	**670**	**SS90873**	**520**
ML 1	**SS95303**	**835**		
ML 1.5	**SS95305**	**1245**		
ML 2	**SS95307**	**1820**	**SS90545**	**765**
ML 3	**SS95309**	**2925**		
ML 4	**SS95311**	**4740**	**SS91258**	**1465**
ML 6	**SS95313**	**8175**		
ML 10	**SS95315**	**15315**	**SS91011**	**3215**
ML 12	**SS95317**	**20385**		
MN 0 ac			**SS94191**	**355**
MN 0 dc			**SS94651**	**650**

Front housing and moving bridge kit		
Type	Cat. No.	M.R.P. (₹) Per Unit
ML 0	**ST28732**	**310**
ML 1	**ST28733**	**310**
ML 1.5	**ST28734**	**310**
ML 2/ ML 3	**ST23866**	**430**
ML 4/ ML 6	**ST28735**	**790**

Combination coil with timer		
Type	Cat. No.	M.R.P. (₹) Per Unit
ML 2	**SS90650**	**1510**

Table B

Ordering suffix for coil voltages			
AC Control		**DC Control***	
Voltage (V)	Suffix	Voltage (V)	Suffix
24	GOOO	24	4OOO
42	HOOO	48	5OOO
48	JOOO	110	1OOO
110	AOOO	220	2OOO
220	KOOO		
230	NOOO		
240	BOOO		
220 / 240	QOOO		
320	ROOO		
360	COOO		
380	LOOO		
415	DOOO		
440	POOO		
525	MOOO		

Note:
* for MX & MN0 only

BIMETAL OVERLOAD RELAYS

Type MX-R0 with single phasing protection

Type of Mounting (Operation)	Relay Range (A)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
(Directly Operated) Direct Mounting on MX Range	0.1 - 0.16	**ST94074OOBO**	**900**	10
	0.16 - 0.24	**ST94074OODO**	**900**	10
	0.22 - 0.33	**ST94074OOEO**	**900**	10
	0.3 - 0.45	**ST94074OOGO**	**900**	10
	0.45 - 0.67	**ST94074OOHO**	**900**	10
	0.67 - 1.0	**ST94074OOKO**	**900**	10
	1.0 - 1.5	**ST94074OOMO**	**900**	10
	1.4 - 2.1	**ST94074OONO**	**900**	10
	1.8 - 2.7	**ST94074OOPO**	**900**	10
	2.4 - 3.6	**ST94074OOQO**	**900**	10
	3.5 - 5	**ST94074OOSO**	**900**	10
	4.0 - 6.0	**ST94074OOTO**	**900**	10
	5.5 - 8.5	**ST94074OOUO**	**900**	10
	8.5 - 12.5	**ST94074OOVO**	**900**	10

Type MN with single phasing protection

Type of Mounting (Operation)	Relay Range (A)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
(Directly Operated) Direct mounting on MNX 9/ MNX 12/ MNX 18/ MNX 22/ MNX 25/ MNX 32/ MNX 40	**MN 2**			
	0.2 - 0.33	**SS94141OOEO**	**1100**	10
	0.3 - 0.5	**SS94141OOGO**	**1100**	10
	0.45 - 0.75	**SS94141OOJO**	**1100**	10
	0.6 - 1	**SS94141OOKO**	**1100**	10
	0.9 - 1.5	**SS94141OOMO**	**1100**	10
	1.4 - 2.3	**SS94141OOPO**	**1100**	10
	2 - 3.3	**SS94141OOQO**	**1100**	10
	3 - 5	**SS94141OOSO**	**1100**	10
	4.5 - 7.5	**SS94141OOUO**	**1100**	10
	6 - 10	**SS94142OOVO**	**1100**	10
	9 - 15	**SS94142OOBO**	**1100**	10
	14 - 23	**SS94144OODO**	**1190**	10
	20 - 33	**SS94145OOEO**	**1500**	10
	24 - 40	**SS94145OOFO**	**1500**	10
(Directly Operated) Direct Mounting	**MN 5**			
	20 - 33	**SS94136OOEO**	**1890**	10
	30 - 50	**SS94136OOGO**	**2025**	10
	45 - 75	**SS94137OOJO**	**3000**	10
	66 - 110	**SS94137OOKO**	**3000**	10
(CT Operated) Separate Mounting	**MN 12**			
	42 - 69	**SS94138OOHO**	**6000**	1
	60 - 100	**SS94138OOKO**	**6000**	1
	90 - 150	**SS94138OOMO**	**6000**	1
	135 - 225	**SS94138OOPO**	**6000**	1
	180 - 300	**SS94139OOQO**	**6800**	1
	270 - 450	**SS94139OORO**	**7400**	1
(CT Operated) Separate Mounting	**MN 12L#**			
	42 - 69	**SS94127OOHO**	**7450**	1
	60 - 100	**SS94127OOKO**	**7450**	1
	90 - 150	**SS94127OOMO**	**7450**	1
	135 - 225	**SS94127OOPO**	**7450**	1
	180 - 300	**SS94127OOQO**	**7450**	1
	340 - 570	**SS94127OOSO**	**7450**	1

For motors with longer starting time

Type ML

Type of Mounting (Operation)	Relay Range (A)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
(Directly Operated) Directly Mounting	**ML 0 / ML 1 / ML 1.5**			
	0.15 - 0.25	**SS91858OODO**	**1230**	10
	0.25 - 0.4	**SS91858OOFO**	**1230**	10
	0.4 - 0.65	**SS91858OOHO**	**1230**	10
	0.6 - 1	**SS91858OOKO**	**1230**	10
	1 - 1.6	**SS91858OOMO**	**1230**	10
	1.5 - 2.5	**SS91858OOPO**	**1230**	10
	2.5 - 4	**SS91858OORO**	**1230**	10
	4 - 6.5	**SS91858OOTO**	**1230**	10
	6 - 10	**SS91858OOVO**	**1230**	10
	10 - 16	**SS91858OOBO**	**1230**	10
(Directly Operated) Directly Mounting	**ML 2 / ML 3**			
	9 - 14	**SS91859OOAO**	**1825**	2
	13 - 21	**SS91859OOCO**	**1825**	2
	20 - 32	**SS91859OOEO**	**1825**	2
	28 - 42	**SS91859OOFO**	**1825**	2

Type MK1

Type of Mounting (Operation)	Relay Range (A)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
(Directly Operated) Direct Mounting	0.15 - 0.25	**SS90035OODO**	**650**	10
	0.25 - 0.4	**SS90035OOFO**	**650**	10
	0.4 - 0.65	**SS90035OOHO**	**650**	10
	0.6 - 1	**SS90035OOKO**	**650**	10
	1 - 1.6	**SS90035OOMO**	**650**	10
	1.5 - 2.5	**SS90035OOPO**	**650**	10
	2.5 - 4	**SS90035OORO**	**650**	10
	4 - 6.5	**SS90035OOTO**	**650**	10
	6 - 10	**SS90035OOVO**	**650**	10
	9 - 14	**SS90035OOAO**	**650**	10
	11 - 18	**SS90036OOCO**	**650**	10
	13 - 22	**SS91888OODO**	**710**	10

Type MU

Type of Mounting (Operation)	Relay Range (A)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Direct Mounting (Directly Operated)	**MU1**			
	4 - 6.5	**SS96557OOTO**	**975**	10
	6 - 10	**SS96557OOVO**	**975**	10
	9 - 14	**SS95979OOAO**	**1475**	10
	13 - 21	**SS95979OOCO**	**1475**	10
	20 - 32	**SS95979OOEO**	**1475**	10
	28 - 42	**SS95979OOFO**	**1475**	10

Accessories for Bimetal Overload Relays

Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Push button unit for MK 1 / ML Relays	**SS90004**	**108**	20
Push button unit for MN Relays	**SS94001**	**120**	20
Push button extn. unit for MN 2 Relays	**SS94968**	**15**	100
Kit for Mounting MN 2 relay on ML 0 / 1 / 1.5 contactor	**SS94701**	**80**	50
Kit for Mounting MN 2 relay separately (Direct Mounting Type)	**SS94700**	**80**	50
Kit for Mounting MN 5 relay on MNX 95 / 110 / 140 contactor	**SS94638**	**100**	20
Kit for Mounting MN 5 relay on ML 2 / ML 3 contactor	**SS94151**	**100**	20
Kit for Mounting MN5 relay on ML 4 / ML 6 contactor	**SS94152**	**130**	20
DIN Rail Mounting Kit relay on MN 2 Relay	**SS91887**	**50**	50

Relay Reset Cord For MN2 Relay

Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
MN2 Relay reset cord - 400mm	**SB94207OOOO**	**400**	1
MN2 Relay reset cord - 650mm	**SB94208OOOO**	**420**	1
MN2 Relay reset cord - 900mm	**SB94209OOOO**	**460**	1
MN2 Relay reset cord - 1200mm	**SB94210OOOO**	**520**	1

TIMERS

Electronic Timers Type ET 100

Description	Cat. No.	M.R.P. (₹) Per Unit	Std Pkg. (Nos.)
110 / 240V, 50Hz for			
3 - 10 secs.	**SE92001**	**2280**	1
9 - 30 secs.	**SE92002**	**2280**	1
36 - 120 secs.	**SE92003**	**2280**	1
240 / 360 / 415V#, 50Hz for			
3 - 10 secs.	**SE92005**	**2280**	1
9 - 30 secs.	**SE92006**	**2280**	1
36 - 120 secs.	**SE92007**	**2280**	1

360V tap can be used for 240V connections

Thermal Timers Type GT 200

Description	Cat. No.	M.R.P. (₹) Per Unit	Std Pkg. (Nos.)
Operating Voltages: 230 / 250V, 360V, 400 / 440V, 500V, 50 Hz for 5 - 18 secs. range	**SS91270**	**1730**	1

To order a Timer, please specify Type & Cat. No.

CONTROL ACCESSORIES

Actuator Units Type TK3

6A, 415V, 50 Hz (Suitable for 30.5mm Cutout Dia.)

Description	Cat. No.	M.R.P. (₹) Per Unit	Std Pkg. (Nos.)
Selector actuator - 2 position (black only)	**SS91516**	**305**	30
Selector actuator - 3 position (black only)	**SS91517**	**305**	30
Mushroom push button actuator (red, green or black)	**SS91518**	**185**	30
Shrouded push button actuator (red, black, green, yellow, blue or grey)	**SS91519**	**130**	30
Unshrouded push button actuator (red, black, green, yellow, blue or grey)	**SS91520**	**130**	30
Key actuator - lockable in 1 position	**SS91522**	**410**	30
Key actuator - lockable in both positions	**SS91521**	**410**	30
Element with 2 fixing screws	**SS90375**	**150**	100

Push Button Pendants

6A, 415V, 50 Hz

Description	Cat. No.	M.R.P. (₹) Per Unit	Std Pkg. (Nos.)
With 2 push buttons	**SS90502**	**710**	30
With 4 push buttons	**SS90504**	**1325**	30
With 6 push buttons	**SS90506**	**1780**	30

Ordering Suffix for Colour	
Black	OAOO
Red	OBOO
Green	OCOO
Yellow	ODOO
Blue	OEOO
Grey	OFOO

To order Control Accessories, please specify Type, Cat. No. and Ordering Suffix for Colour.

MOTOR PROTECTION CIRCUIT BREAKERS

New SUPERNOVA™

Type MOG-S1 (Rocker Type)

(ROM cannot be fitted with MOG - S1)
With short circuit & overload protection

Rating (A)	Recommended Motor Rating at 415V, 50Hz (KW)	Thermal Release range (A)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
0.16	-	0.1 - 0.16	**ST41889OOOO**	**1995**	1
0.25	0.06	0.16 - 0.25	**ST41890OOOO**	**1995**	1
0.40	0.09	0.25 - 0.40	**ST41891OOOO**	**1995**	1
0.63	0.12	0.40 - 0.63	**ST41892OOOO**	**2080**	1
1.00	0.25	0.63 - 1.00	**ST41893OOOO**	**2080**	1
1.60	0.55	1.00 - 1.60	**ST41894OOOO**	**2080**	1
2.50	0.75	1.60 - 2.50	**ST41895OOOO**	**2080**	1
4.00	1.50	2.50 - 4.00	**ST41896OOOO**	**2185**	1
6.30	2.20	4.00 - 6.30	**ST41897OOOO**	**2220**	1
10.00	4.00	6.30 - 10.00	**ST41898OOOO**	**2285**	1
13.00	5.40	9.00 - 13.00	**ST41899OOOO**	**2430**	1

Breaking capacity : Icu = 100kA upto 10A & Icu = 50kA for 13A

Type MOG-H1 (Rotary Type) - Frame 1

With short circuit & overload protection

Rating (A)	Recommended Motor Rating at 415V, 50Hz (KW)	Thermal Release range (A)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
0.16	-	0.1 - 0.16	**ST41904OOOO**	**2455**	1
0.25	0.06	0.16 - 0.25	**ST41905OOOO**	**2455**	1
0.40	0.09	0.25 - 0.40	**ST41906OOOO**	**2455**	1
0.63	0.12	0.40 - 0.63	**ST41907OOOO**	**2645**	1
1.00	0.25	0.63 - 1.00	**ST41908OOOO**	**2645**	1
1.60	0.55	1.00 - 1.60	**ST41909OOOO**	**2835**	1
2.50	0.75	1.60 - 2.50	**ST41910OOOO**	**2835**	1
4.00	1.50	2.50 - 4.00	**ST41911OOOO**	**2835**	1
6.30	2.20	4.00 - 6.30	**ST41912OOOO**	**2835**	1
10.00	4.00	6.30 - 10.00	**ST41913OOOO**	**2970**	1
13.00	5.40	9.00 - 13.00	**ST41914OOOO**	**3080**	1
16.00	7.50	11.00 - 16.00	**ST41915OOOO**	**3400**	1
20.00	9.00	14.00 - 20.00	**ST41916OOOO**	**3670**	1
25.00	12.50	19.00 - 25.00	**ST41917OOOO**	**3995**	1
32.00	15.00	24.00 - 32.00	**ST41918OOOO**	**6235**	1

Breaking capacity : Icu = 100kA upto 13A & Icu = 50kA from 16A - 32A

Type MOG-H2 (Rotary Type) - Frame 2

With short circuit & overload protection

Rating (A)	Recommended Motor Rating at 415V, 50Hz (KW)	Thermal Release range (A)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
32.00	15.00	24.00 - 32.00	**ST41919OOOO**	**8800**	1
40.00	20.00	28.00 - 40.00	**ST41920OOOO**	**8910**	1
50.00	25.00	35.00 - 50.00	**ST41921OOOO**	**9235**	1
63.00	34.00	45.00 - 63.00	**ST41922OOOO**	**9830**	1

Breaking capacity : Icu = 50kA from 32A - 63A

Type MOG-H1M (Rotary Type) - Frame 1

With short circuit protection only

Rating (A)	Recommended Motor Rating at 415V, 50Hz (KW)	Short Circuit Release (A)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
0.16	-	0.16	**ST41923OOOO**	**1860**	1
0.25	0.06	0.25	**ST41924OOOO**	**1860**	1
0.40	0.09	0.40	**ST41925OOOO**	**1860**	1
0.63	0.12	0.63	**ST41926OOOO**	**2625**	1
1.00	0.25	1.00	**ST41927OOOO**	**2625**	1
1.60	0.55	1.60	**ST41928OOOO**	**2625**	1
2.50	0.75	2.50	**ST41929OOOO**	**2625**	1
4.00	1.50	4.00	**ST41930OOOO**	**2745**	1
6.30	2.20	6.30	**ST41931OOOO**	**2745**	1
10.00	4.00	10.00	**ST41932OOOO**	**2860**	1
13.00	5.40	13.00	**ST41933OOOO**	**2970**	1
16.00	7.50	16.00	**ST41934OOOO**	**3050**	1
20.00	9.00	20.00	**ST41935OOOO**	**3300**	1
25.00	12.50	25.00	**ST41936OOOO**	**3915**	1
32.00	15.00	32.00	**ST41937OOOO**	**5200**	1

Breaking capacity : Icu = 100kA upto 13A & Icu = 50kA from 16A - 32A

Type MOG-H2M (Rotary Type) - Frame 2

With short circuit protection only

Rating (A)	Recommended Motor Rating at 415V, 50Hz (KW)	Short Circuit Release (A)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
32.00	15.00	32.00	**ST41938OOOO**	**7200**	1
40.00	20.00	40.00	**ST41939OOOO**	**7200**	1
50.00	25.00	50.00	**ST41940OOOO**	**8425**	1
63.00	34.00	63.00	**ST41941OOOO**	**8425**	1

Breaking capacity : Icu = 50kA from 32A - 63A

Accessories for MOG

Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Auxiliary Contact Front mtg. 1NO	**ST41942OOOO**	**430**	1
Auxiliary Contact Front mtg. 1NC	**ST41943OOOO**	**430**	1
Auxiliary Contact Left side mtg. 2NO	**ST41944OOOO**	**515**	1
Auxiliary Contact Left side mtg. 1NO + 1NC	**ST41945OOOO**	**515**	1
Auxiliary Contact Left side mtg. 2NC	**ST41946OOOO**	**515**	1
Trip Alarm Contact Front mtg. 1NO	**ST41947OOOO**	**650**	1
Trip Alarm Contact Front mtg. 1NC	**ST41948OOOO**	**650**	1
Auxiliary + Alarm Left side mtg. 2NO	**ST41949OOOO**	**730**	1
Short circuit alarm Left side mtg. 1NO + 1NC	**ST41950OOOO**	**730**	1
Shunt trip 24V DC	**ST41951OOOO**	**1190**	1
Shunt trip 110V, 50Hz	**ST41952OOOO**	**1190**	1
Shunt trip 230V, 50Hz	**ST42952OOOO**	**1190**	1
Under Voltage release, 110V, 50Hz	**ST41953OOOO**	**1190**	1
Under Voltage release, 415V, 50Hz	**ST41954OOOO**	**1190**	1
External operating handle, (Black) Frame 1	**ST41955OOOO**	**890**	1
External operating handle, (Black) Frame 2	**ST41956OOOO**	**890**	1

MOTOR STARTERS

Direct-on-Line Starters

in Sheet-Steel Enclosure Type MF, MK, ML, MU & MB
(Motor Rating AC-3 Duty, 415V, 50Hz, 3-Ph)

Max. Motor Output at 415V, 3-Ph		Relay Max. Range (A)	Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
HP	kW					
2.0	1.5	12 - 20	MF1-1 Phase	**SS97227**	**708**	1
7.5	5.5	9 - 15	MF1-3 Phase	**SS97210**	**956**	1
7.5	5.5	9 - 14	MK1 DOL	**SS96210**	**1530**	1
7.5	5.5	11 - 18	MK1 DOL	**SS96211**	**1530**	1
7.5	5.5	13 - 22	MK1 DOL	**SS96228**	**1600**	1
10.0	7.5	13 - 21	MU1 DOL #	**SS95647**	**2560**	1
10.0	7.5	14 - 23	MB1 DOL #	**SS95649**	**2500**	1
15.0.	11.0	20 - 32	MU2 DOL #	**SS95648**	**3350**	1
15.0	11.0	20 - 33	MB2 DOL #	**SS95650**	**3370**	1

Direct-on-Line Starters

in Sheet-Steel Enclosure Type MN with SPP feature
(Motor Rating AC-3 Duty, 415V, 50Hz, 3-Ph)

Max. Motor Output at 415V, 3-Ph		Relay Max. Range (A)	Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
HP	kW					
10.0	8.0	9 - 15	MN 16 DOL	**SS94351**	**2400**	1
15.0	11.0	14 - 23	MN 25 DOL	**SS94352**	**3685**	1
20.0	15.0	20 - 33	MN 32 DOL	**SS94353**	**6610**	1
30.0	23.0	30 - 50	MN 45 DOL	**SS94017**	**9805**	1
45.0	34.0	45 - 75	MN 65 DOL	**SS94018**	**13780**	1
15.0	11.0	20 - 32	ML 1.5 DOL@	**SS91854**	**3645**	1
20.0	15.0	20 - 32	ML 2 DOL	**SS90702**	**6072**	1
30.0	22.5	28 - 42	ML 3 DOL	**SS90722**	**9805**	1

@ Available till stocks last

Semi-Automatic Star-Delta Motor Starters

in Sheet-Steel Enclosure Type MK, MU & MB
(Motor Rating AC-3 Duty, 415V, 50Hz, 3-Ph)

Max. Motor Output at 415V, 3-Ph		Relay Max. Range (A)	Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
HP	kW					
12.5	9.3	9 - 14	MK1 SASD	**SS96255**	**5000**	1
15.0	11.0	11 - 18	MK1 SASD	**SS96258**	**5000**	1
15.0	11.0	13 - 22	MK1 SASD	**SS96260**	**5040**	1
15.0	11.0	13 - 21	MU1 SASD #	**SS95891**	**6850**	1
15.0	11.0	14 - 23	MB1 SASD #	**SS95895**	**7780**	1
30.0	22.5	20 - 32	MU2 SASD #	**SS95893**	**8330**	1
30.0	22.5	20 - 33	MB2 SASD #	**SS95897**	**9120**	1

Semi-Automatic Star-Delta Motor Starters

in Sheet-Steel Enclosure Type ML
(Motor Rating AC-3 Duty, 415V, 50Hz, 3-Ph)

Max. Motor Output at 415V, 3-Ph		Relay Max. Range (A)	Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
HP	kW					
25.0	19.0	13 - 21	ML1.5 SASD@	**SS91856**	**8392**	1
35.0	26.0	20 - 32	ML2 SASD	**SS90707**	**14673**	1

@ Available till stocks last

Fully Automatic Star-Delta Motor Starters

in Sheet-Steel Enclosure Type MN with SPP feature
(Motor Rating AC-3 Duty, 415V, 50Hz, 3-Ph)

Max.Motor Outputat 415V, 3-Ph		Relay Max. Range (A)	Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
HP	kW					
15.0	11.0	9 - 15	MN 16 FASD	**SS94362**	**8070**	1
25.0	19.0	14 - 23	MN 25 FASD	**SS94364**	**9180**	1
35.0	26.0	20 - 33	MN 32 FASD	**SS94366**	**16550**	1
50.0	37.0	30 - 50	MN 45 FASD	**SS94021**	**22950**	1
75.0	55.0	45 - 75	MN 65 FASD	**SS94022**	**39645**	1
90.0	68.0	45 - 75	MN 80 FASD	**SS94705**	**42840**	1
125.0	90.0	66 - 110	MN 110 FASD	**SS94706**	**55630**	1
175.0	130.0	90 - 150	MN 140 FASD	**SS94707**	**59110**	1

Fully-Automatic Star-Delta Motor Starters

in Sheet-Steel Enclosure Type MK, ML, MU & MB
(Motor Rating AC-3 Duty, 415V, 50Hz, 3Ph)

Max. Motor Output at 415V, 3-Ph		Relay Max. Range (A)	Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
HP	kW					
12.5	9.3	9 - 14	MK1 FASD	**SS96254**	**5700**	1
15.0	11.0	11 - 18	MK1 FASD	**SS96257**	**5730**	1
15.0	11.0	13 - 22	MK1 FASD	**SS96259**	**5780**	1
15.0	11.0	13 - 21	MU1 FASD#	**SS95890**	**7600**	1
15.0	11.0	14 - 23	MB1 FASD	**SS95894**	**8120**	1
30.0	22.0	20 - 32	MU2 FASD#	**SS95892**	**9000**	1
30.0	22.0	20 - 33	MB2 FASD#	**SS95896**	**9230**	1

Max. Motor Output at 415V, 3-Ph		Relay Max. Range (A)	Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
HP	kW					
25.0	18.5	13 - 21	ML1.5 FASD@	**SS91855**	**9520**	1
35.0	26.0	20 - 32	ML2 FASD	**SS90705**	**15120**	1
50.0	37.0	28 - 42	ML3 FASD	**SS90730**	**23640**	1
75.0	55.0	45 - 75	ML4 FASD	**SS90913**	**40335**	1
125.0	90.0	66 - 110	ML6 FASD	**SS90923**	**66060**	1
250.0	180.0	135 - 225	ML10 FASD@	**SS90938**	**104305**	1
400.0	300.0	180 - 300	ML12 FASD@	**SS91019**	**118210**	1

@ Available till stocks last

Single Phase Motor Starters (Coil operated)

Max. Motor Output at 415V, 3-Ph		Relay Max. Range (A)	Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
HP	kW					
0.5	0.37	4 - 6.5	MHO	**ST37491**	**840**	1
1.0	0.75	6 - 10	MHO	**ST37491**	**840**	1

#Note: Type MU1 / MU2 consists of type MU Relay + MU1 / MU2 Contactor
Type MB1 / MB2 consists of type MN Relay + MU1 / MU2 Contactor

For Ordering Suffix of MK1 / MU / MB / ML / MN starters please refer table C on page no. 30

MOTOR STARTERS

Submersible Pump Starters

In Sheet Steel Enclosure Type MRG, MFG

Description	HP	RelayRange (A)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Type MRG 2 For Single Phase Motors	0.5	6 - 10	**SS96988**	*	1
	1.0	11 - 18	**SS96560**	*	
	1.5	13 - 22	**SS96989**	*	1
	2.0	13 - 22	**SS96990**	*	
Type MFG 1 For Single Phase Motors	0.5	6.5 - 11	**SS97734**	*	1
	1.0	12 - 20	**SS97736**	*	1
	1.5	12 - 20	**SS97737**	*	1
	2.0	12 - 20	**SS97738**	*	1

*** Prices on Request**

Submersible Pump Starters

In Sheet Enclosure Type MUG
(Motor Rating AC-3 Duty, 415V, 50Hz, 3 phase)

Description	HP	RelayRange (A)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
MUG20 Fully Automatic Star - Delta Starter#	20	13 - 21	**SS95984**	**9240**	1
		20 - 32	**SS96985**	**9734**	1
MUG20H Fully Automatic Star - Delta Starter#	20	28 - 42	**SS95975**	**11865**	1
MUG30 Fully Automatic Star - Delta Starter	30	20 - 33	**CS96008**	**17588**	1
		30 - 50	**CS96008**	**17588**	1
MUG50 Fully Automatic Star - Delta Starter	50	30 - 50	**CS96009**	**25725**	1
		45 - 75	**CS96009**	**25725**	1

Also available with lower Relay Ranges

Spares for MN Starters

Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Bracket for Mounting cont. MNX 25 - 32	**SS94030OOOO**	**60**	20

Spares for Starters Type MK / MUG Controllers

Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Single Moving Contact	**SS91009**	**34**	10
Std. Operating coils			
400 / 440V, 50Hz	**SS90047**	**178**	10
360V, 50Hz	**SS90165**	**178**	10
320V, 50Hz	**SS90166**	**178**	10
230V, 50Hz	**SS90045**	**178**	10
220V, 50Hz	**SS90044**	**178**	10
110V, 50Hz	**SS90043**	**178**	10
Auxiliary contact block: 1 NO + 1 NC	**SS90120**	**246**	50
Spare kit without coil	**SS90983**	**370**	50
Thermal timer without combination coil	**SS90224**	**695**	4
Combination coils			
Combination coils for 400 / 440V, 50Hz	**SS90443**	**457**	10
Combination coils for 230V, 50Hz	**SS90444**	**457**	10
Combination coils for 380V, 50Hz	**SS90445**	**457**	10
Combination coils for 360V, 50Hz	**SS90446**	**457**	10
Push Button Unit	**SS90004**	**108**	100
Arc Shield	**SS50004**	**114**	100
Contact bridge without Contacts	**SS50005**	**107**	100
SPPR-z5 360V	**CS94801COOO**	**1073**	1
SPPR-z5 415V	**CS94801DOOO**	**173**	1

Submersible Pump Starters

In Sheet Enclosure Type MUG
(Motor Rating AC-3 Duty, 415V, 50Hz, 3 phase)

Description	HP	RelayRange (A)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
MUG6 DOL Starter#	6	9 - 14	**SS97756**	**4200**	1
MUG10 DOL Starter#	10	13 - 21	**SS95983**	**4778**	1
MUG10H DOL Starter#	10	28 - 42	**SS95974**	**5408**	1

Also available with lower Relay Ranges

Table C

Ordering Suffix for MK1 / MU / MB / ML / MN Starters

□ O □ O

Coil Voltage	Relay Range (A)				
	MK1	**MU**	**MB**	**ML**	**MN**
B - 240V	V - 6-10	A - 9-14	B - 9-15	A - 9-14	B - 14-23
C - 360V	A - 9-14	C - 13-21	D - 14-23	B - 10-16	E - 20-33
L - 380V	C - 11-18	E - 20-32	E - 20-33	C - 13-21	G - 30-50
D - 415V	D - 13-22			E - 20-32	J - 45-75
P - 440V					K - 66-110

SPARES

Description	Cat. No.	M.R.P. (₹) Per Unit
Sz5 SPPR 380V AC (6 wires)	**CS94824LOOO**	**560**
Sz5 SPPR 380V AC (7 wires)	**ST92166OOOO**	**560**

DIGITAL SOFT STARTERS

CSX Soft Starters

Motor kW	Cat. No.	M.R.P. (₹) Per Unit
7.5	**CSX0007V4C1**	**23500**
15	**CSX0015V4C1**	**24900**
18	**CSX0018V4C1**	**25800**
22	**CSX0022V4C1**	**30400**
30	**CSX0030V4C1**	**34300**
37	**CSX0037V4C1**	**39300**
45	**CSX0045V4C1**	**44700**
55	**CSX0055V4C1**	**48900**
75	**CSX0075V4C1**	**66300**
90	**CSX0090V4C1**	**72400**
110	**CSX0110V4C1**	**79500**

CSXi Soft Starters

Motor kW	Cat. No.	M.R.P. (₹) Per Unit
7.5	**CSXi007V4C1**	**34000**
15	**CSXi015V4C1**	**39400**
18	**CSXi018V4C1**	**41500**
22	**CSXi022V4C1**	**44300**
30	**CSXi030V4C1**	**49300**
37	**CSXi037V4C1**	**53900**
45	**CSXi045V4C1**	**65000**
55	**CSXi055V4C1**	**71100**
75	**CSXi075V4C1**	**83100**
90	**CSXi090V4C1**	**104100**
110	**CSXi110V4C1**	**115900**

Optional Modules / Cards for CSX / CSXi / EMX3

Description	Cat. No.	M.R.P. (₹) Per Unit
Modbus Module	**PIMMB01**	**10900**
Profibus Module	**PIMPB01**	**17000**
Device Net Module	**PIMDN01**	**13600**
EMX3 RTD/Ground Fault Expansion Card	**995-04804-00**	**13600**
EMX3 I/O Expansion Card	**995-04803-00**	**8500**

CSX Soft Starters : For Standard Applications

- Inbuilt Bypass Contactor
- Soft Start / Soft Stop
- Compact
- Truly plug & play

CSXi Soft Starters : For Standard Applications

- Inbuilt Bypass Contactor
- Soft Start / Soft Stop / Adjustable Current Limit
- Essential motor protections against
  - Overload
  - Single phasing
  - Phase sequence reversal
  - Abnormality in supply
  - Unbalanced current
- Thermistor protection through PTC
- Excess start time setting
- PC Interface as optional

EMX3 Soft Starters : For Heavy Duty Applications

- Ratings from 23 to 1600A
- Control Voltage from 94Vdc to 484Vdc
- Constant Current / Adaptive acceleration start
- Constant Current / Adaptive de-acceleration for smooth stop
- Forward / Reverse Jog
- Comprehensive motor protection
- Large LCD Keypad
- Detachable built-in Real time clock
- Auto Start / stop
- 2 motor data sets
- Fully programmable overload trip
- 5 digital inputs, 4 digital outputs, 1 analog output
- Built-in RTD & Thermistor inputs
- 99 event logs with time stamping
- Power through operation allows to run soft starter even with one of shorted SCR

EMX3 Soft Starters

Suitable for motor kW	Motor Amps	Suitable for Motor kW	Motor Amps	EMX3 Cat. No.	M.R.P. (₹) Per Unit	Bypass Contactor
3 Wire (in-line) Connection		6 Wire (inside delta) Connection				
7.5 / 11	23	15	35	**EMX30023B411**	**56000**	Built - In
15 / 18.5	43	18.5	65	**EMX30043B411**	**60000**	
22	53	22 / 30	75	**EMX30053B411**	**70000**	
30 / 37	76	45	105	**EMX30076B411**	**75000**	
45	97	55	135	**EMX30097B411**	**80000**	
55	105	75	155	**EMX30105B411**	**95000**	
75	145	90	205	**EMX30145B411**	**110000**	
90	170	110	240	**EMX30170B411**	**125000**	
110	220	132	330	**EMX30220B411**	**131000**	
132	255	160 / 185	365	**EMX30255C411**	**145000**	Terminals for connecting External contactor (AC1 duty) * All protections remain active during bypass operation
160 / 185	360	220 / 250	540	**EMX30360C411**	**154000**	
220	400	300 / 315	645	**EMX30430C411**	**233000**	
250 / 300 / 315	620	355 / 400	930	**EMX30620C411**	**240000**	
355	650	450	975	**EMX30650C411**	**255000**	
400 / 450	790	600	1185	**EMX30790C411**	**310000**	
500	930	700	1395	**EMX30930C411**	**390000**	
600	1200	800	1800	**EMX31200C411**	**600000**	
700	1410	1000	2115	**EMX31410C411**	**720000**	
800	1600	1200	2400	**EMX31600C411**	**800000**	

Note : Above EMX3 selection is as per AC53b:3.0-10:350 category considering ambient of 45^{0}C
For Heavy Duty or application specific selection L&T recommends use of WINSTART selection software

PROGRAMMABLE LOGIC CONTROLLER (PLC)

- Compact & Powerful
- LX7S from 10 to 48 I/O
- LX7 from 28 to 104 I/O
- 2 serial ports (with Modbus RTU)
- Built-in backup flash memory
- Built-in High speed counter & Pulse Output
- Built-in real time clock in LX7
- Ideal for small to mid size machine automation / AMF panels / Load management / pump control and many more applications
- Can communicate with ACB, MCCB Releases, Energy Meters

Type	Cat. No.	Description	M.R.P. (₹) Per Unit
LX7S Series (Non Expandable PLC)	**LX7S-10ADR**	AC Powered, 6 Digital Inputs, 4 Digital Outputs (Relay)	**9500**
	LX7S-10ADT	AC Powered, 6 Digital Inputs, 4 Digital Outputs (Transistor)	**9300**
	LX7S-14ADR	AC Powered, 8 Digital Inputs, 6 Digital Outputs (Relay)	**11200**
	LX7S-14ADT	AC Powered, 8 Digital Inputs, 6 Digital Outputs (Transistor)	**10900**
	LX7S-20ADR	AC Powered, 12 Digital Inputs, 8 Digital Outputs (Relay)	**13700**
	LX7S-20ADT	AC Powered, 12 Digital Inputs, 8 Digital Outputs (Transistor)	**13300**
	LX7S-28ADR	AC Powered, 16 Digital Inputs, 12 Digital Outputs (Relay)	**16500**
	LX7S-28ADT	AC Powered, 16 Digital Inputs, 12 Digital Outputs (Transistor)	**16100**
	LX7S-40ADR	AC Powered, 24 Digital Inputs, 16 Digital Outputs (Relay)	**20700**
	LX7S-40ADT	AC Powered, 24 Digital Inputs, 16 Digital Outputs (Transistor)	**20100**
	LX7S-48ADR	AC Powered, 28 Digital Inputs, 20 Digital Outputs (Relay)	**22900**
	LX7S-48ADT	AC Powered, 28 Digital Inputs, 20 Digital Outputs (Transistor)	**22200**
	LX7S-10DDR	DC Powered, 6 Digital Inputs, 4 Digital Outputs (Relay)	**9500**
	LX7S-10DDT	DC Powered, 6 Digital Inputs, 4 Digital Outputs (Transistor)	**9300**
	LX7S-14DDR	DC Powered, 8 Digital Inputs, 6 Digital Outputs (Relay)	**11200**
	LX7S-14DDT	DC Powered, 8 Digital Inputs, 6 Digital Outputs (Transistor)	**10900**
LX7 Series (Expandable PLC)		**Base Modules**	
	LX7-28ADR	AC Powered, 16 Digital Inputs, 12 Digital Outputs (Relay)	**21252**
	LX7-28ADT	AC Powered, 16 Digital Inputs, 12 Digital Outputs (Transistor)	**20066**
	LX7-48ADR	AC Powered, 28 Digital Inputs, 20 Digital Outputs (Relay)	**31510**
	LX7-48ADT	AC Powered, 28 Digital Inputs, 20 Digital Outputs (Transistor)	**29298**
	LX7-28DDR	DC Powered, 16 Digital Inputs, 12 Digital Outputs (Relay)	**21922**
	LX7-28DDT	DC Powered, 16 Digital Inputs, 12 Digital Outputs (Transistor)	**20608**
	LX7-48DDR	DC Powered, 28 Digital Inputs, 20 Digital Outputs (Relay)	**33270**
	LX7-48DDT	DC Powered, 28 Digital Inputs, 20 Digital Outputs (Transistor)	**30722**
	LX7-20ADR-4A	AC Powered, 12 Digital Inputs, 8 Digital Outputs (Relay), 4 Analog Inputs	**24900**
	LX7-20ADR-6A	AC Powered, 12 Digital Inputs, 8 Digital Outputs (Relay), 4 Analog Inputs, 2 Analog Outputs	**29500**
	LX7-20ADT-4A	AC Powered, 12 Digital Inputs, 8 Digital Outputs (Transistor), 4 Analog Inputs	**24400**
	LX7-20ADT-6A	AC Powered, 12 Digital Inputs, 8 Digital Outputs (Transistor), 4 Analog Inputs, 2 Analog Outputs	**28800**
		Expansion Modules	
	LX7-14EDR	Expansion Module, 8 Digital Inputs, 6 Digital Outputs (Relay)	**10400**
	LX7-14EDT	Expansion Module, 8 Digital Inputs, 6 Digital Outputs (Transistor)	**10100**
	LX7-28EDR	Expansion Module, 16 Digital Inputs, 12 Digital Outputs (Relay)	**14300**
	LX7-28EDT	Expansion Module, 16 Digital Inputs, 12 Digital Outputs (Transistor)	**13900**

LX 70 Series PLC:

- Modular structure with variety of I/O modules
- Fast & powerful processors to control upto 384 I/O points
- Built-in PID for process control

LX 700 Series PLC:

- Modular structure with high density I/O modules
- Fast & powerful processors to control upto 1600 I/O points
- Distributed I/O configuration using Remote I/O master & slave

Lμ1000 PROGRAMMABLE SMART RELAY

- On board Programming / editing LCD screen and function keys
- LCD screen can be used as an HMI for data entry as well as for viewing alarms
- A power packed compact unit with Timers, Counters, Analog Comparalors, Text Display, Time Switches and many more
- Expandable upto 48 I/O with 3 Expansion Units
- Programming upto 250 Lines
- Battery backed up Flash Memory
- DIN rail Mounting
- Built-in RS 232 Modbus port
- Optional RS 485 Modbus port
- Power up Option : 230V AC, 24V DC

Type	Cat. No.	Description	M.R.P. (₹) Per Unit
Lμ1000 Programmable Smart Relay	**L1000-A12BR**	AC Powered Base Module, 8 Digital Inputs, 4 Digital Outputs (Relay)	**7500**
	L1000-A12ER	AC Powered Expansion Module, 8 Digital Inputs, 4 Digital Outputs (Relay)	**4100**
	L1000-D12BR	DC Powered Base Module, 8 Digital Inputs**, 4 Digital Outputs (Relay)	**6800**
	L1000-D12ER	DC Powered Expansion Module, 8 Digital Inputs**, 4 Digital Outputs (Relay)	**4100**
	L1000-USBPR	USB Programming Cable	**1150**
	L1000-MEMBK	Memory Card for storing Program	**900**
	L1000-RS232	RS 232 Cable for Communication on Modbus	**1550**
	L1000-485AC	AC Powered, RS 485 module for Modbus Communication	**1700**
	L1000-485DC	DC Powered, RS 485 module for Modbus Communication	**2500**

** In DC Modules, 2 Inputs can either be configured as Analog Inputs with 10 Bit Resolution (0-10 V DC) or can be Used as Digital Inputs

MAN MACHINE INTERFACE (MMI)

- Available from 3” to 15” in 8 models
- Touch LCD interface
- Modbus Serial, Ethernet, Field bus Communication
- Supports various Fonts and Graphics
- Supports various languages - Japanese, Korean etc
- Multiple PLCs, Controllers connectivity. Communication with ACB, MCCB, Energy Meter
- Advanced features: Multy - Language, Graphic, Extended Alarms, Recipe, Data Logging, Printing, Password protection, Trends
- Supports scripting

Type	Cat. No.	Description	M.R.P. (₹) Per Unit
1	**LX-TEXTMATE**	DC Powered, 3”, 8-Line Alphanumeric Text Display	**10400**
2	**S04TDAA**	4.3" Wide 65536 Color TFT, SRAM, 480X272, 6M Memory(Serial only), DC powered	**20000**
3	**E05TDAA**	5.7" 65536 Color TFT, SRAM, 320X240, (Serial/USB/CF/Ethernet), DC powered	**50000**
4	**S07TDAA**	7" Wide 65536 Color TFT, SRAM, 800X480, 26M Memory (Serial only), DC powered	**29000**
5	**E08TDAA**	8.4" 65536 Color TFT, SRAM, 640*480, (Serial/USB/CF/Ethernet), DC powered	**65000**
6	**E10TDAA**	10.4" 65536 Color TFT, SRAM, 800x600, (Serial/USB/CF/Ethernet), DC powered	**85000**
7	**F12TAAA**	12.1" 65536 Color TFT, SRAM, 800x600, (Serial/USB/CF/Ethernet, Option: Profibus slave), AC powered	**150000**
8	**F15TAAA**	15" 65536 Color TFT, SRAM, 1024x768, (Serial/USB/CF/Ethernet, Option: Profibus slave), AC powered	**200000**

REACTIVE POWER MANAGEMENT PRODUCTS

Power Factor Correction Capacitors

Duty	Type	kVAr Rating	Voltage (V)	M.R.P. (₹) per kVAr
Standard Duty	Cylindrical	1 to 25	440	**165**
	Box	1 to 30	440	**216**
Heavy duty	Cylindrical (Gas Filled)	3 to 25	440	**301**
			480	**331**
			525	**361**
	Box (Resin Filled)	5 to 20	440	**351**
		25 to 50		**350**
		5 to 20	480	**386**
		25 to 50		**385**
New Ultra Heavy Duty (LTXL)	Box	5 to 100	440	**550**
			480	**605**

7% Detuned Reactors, 440V 50Hz

kVAr Rating	Cat. No.	M.R.P. (₹) per kVAr
5	**LTFR0705B2**	**7000**
10	**LTFR0710B2**	**11000**
15	**LTFR0715B2**	**13500**
20	**LTFR0720B2**	**16000**
25	**LTFR0725B2**	**17000**
50	**LTFR0750B2**	**27000**
75	**LTFR0775B2**	**40000**
100	**LTFR0700B2**	**55000**

Selection of Capacitors with Reactors Reactor Voltage: 440V, Capacitor Voltage: 480V	
Output kVAr	Selection
10	10kVAr 7% Reactor + 12.5kVAr Capacitor
15	15kVAr 7% Reactor + 20kVAr Capacitor
20	20kVAr 7% Reactor + 25kVAr Capacitor
25	25kVAr 7% Reactor + 30kVAr Capacitor
50	50kVAr 7% Reactor + 2 X 30kVAr Capacitors

Sample Selection: for 25kVAr 7% detuned reactors with heavy duty capacitor, place an order for:
1 No. 25kVAr 7% detuned reactor: LTFR0725B2 & 1 No. 30kVAr LTCCN capacitors at 480V: LTCCN330C2

Thyristor Switching Module, 440V 50Hz

kVAr Rating	Cat. No.	M.R.P. (₹) per kVAr
10	**LTTSM10B2**	**19280**
25	**LTTSM25B2**	**27500**
50	**LTTSM50B2**	**32100**

Standard APFC Panels

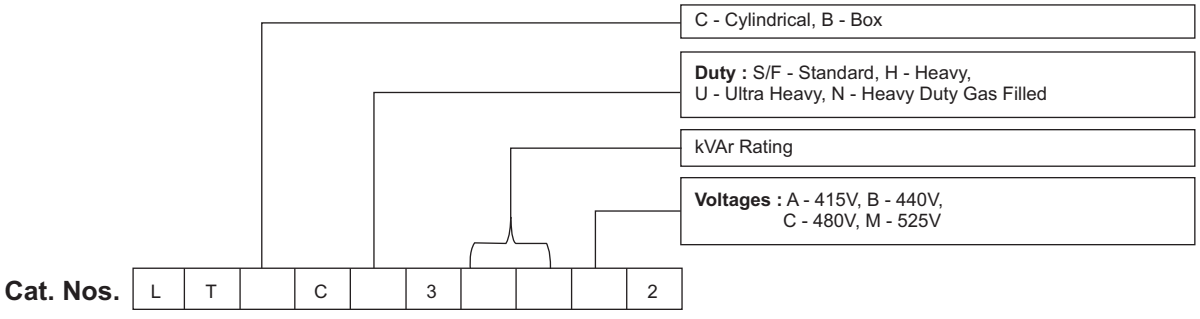
kVAr Ratings	Cat No.	Step sizes (kVAr)	M.R.P. (₹) per kVAr
35	**LTAPFH0351B2**	2x12.5 + 2x5	*
50	**LTAPFH0501B2**	2 x 12.5 + 2x10 + 1x5	*
75	**LTAPFH0751B2**	2 x 25 + 2x10 + 1x5	*
100	**LTAPFH1001B2**	50 + 25 + 15 + 10	*
125	**LTAPFH1251B2**	2 x 12.5 + 2 x 25 + 50	*
150	**LTAPFH1501B2**	2 x 12.5 + 3 x 25 + 50	*
175	**LTAPFH1751B2**	2 x 12.5 + 2 x 25 + 2 x 50	*
200	**LTAPFH2001B2**	2 x 12.5 + 25 + 3 x 50	*
225	**LTAPFH2251B2**	2 x 12.5 + 4 x 50	*
250	**LTAPFH2501B2**	2 x 25 + 4 x 50	*
275	**LTAPFH2751B2**	1x100 + 3x50 + 2x12.5	*
300	**LTAPFH3001B2**	1x100 + 3x50 + 2x25	*

Standard APFC panels with 7% detuned harmonics filters

kVAr Ratings	Cat No.	Step sizes (kVAr)	M.R.P. (₹) per kVAr
100	**LTAPFH1002B2**	2 x 12.5 + 25 + 50	*
125	**LTAPFH1252B2**	2 x 12.5 + 2 x 25 + 50	*
150	**LTAPFH1502B2**	2 x 12.5 + 3 x 25 + 50	*
175	**LTAPFH1752B2**	2 x 12.5 + 2 x 25 + 2 x 50	*
200	**LTAPFH2002B2**	2 x 12.5 + 1 x 25 + 3 x 50	*
225	**LTAPFH2252B2**	3 x 12.5 + 4 x 50	*
250	**LTAPFH2502B2**	2 x 25 + 4 x 50	*
275	**LTAPFH2752B2**	1x100 + 3x50 + 2x12.5	*
300	**LTAPFH3002B2**	1x100 + 3x50 + 2x25	*

* Prices on request
All the above panels are with Heavy Duty capacitors, MCCB main incomer, MCCB branch protection and contactor switched.
Standard lead time for APFC panels is 10 weeks.
For other ratings and thyristor switched APFC Panels, please contact nearest branch office.

Ordering Information for Capacitors



DIGITAL PROTECTIVE RELAYS

3 Phase Over Current + Earth Fault Relay

C.T. Rating 1A or 5A, Field Selectable

Model	Aux. Supply (V)	Output Contacts	Cat. No.	M.R.P. (₹) Per Unit	Std Pkg. (Nos.)
MC31A	20 - 110V AC/DC	4 NO	**MC31AAXX000**	**17000**	1
MC31A	20 - 110V AC/DC	2 NO + 2 NC	**MC31AAXX001**	**17000**	1
MC31A	88 - 264V AC/DC	4 NO	**MC31ABXX000**	**17000**	1
MC31A	88 - 264V AC/DC	2 NO + 2 NC	**MC31ABXX001**	**17000**	1

3 Phase Over Current + Earth Fault Relay With High Set

C.T. Rating 1A or 5A, Field Selectable

Model	Aux. Supply (V)	Output Contacts	Cat. No.	M.R.P. (₹) Per Unit	Std Pkg. (Nos.)
MC61A	20 - 110V AC/DC	4 NO	**MC61AAXX000**	**23000**	1
MC61A	20 - 110V AC/DC	2 NO + 2 NC	**MC61AAXX001**	**23000**	1
MC61A	88 - 264V AC/DC	4 NO	**MC61ABXX000**	**23000**	1
MC61A	88 - 264V AC/DC	2 NO + 2 NC	**MC61ABXX001**	**23000**	1

3 Phase Over Current + Earth Fault Relay with High Set & RS-485

C.T.Rating1Aor5A,NotFieldSelectable

Model	Aux. Supply (V)	C.T. Secondary (A)		Cat. No.	M.R.P. (₹) Per Unit	Std Pkg. (Nos.)
		In	On			
MC61C	20 - 110V AC/DC	1	1	**MC61CA11000 ***	**39000**	1
MC61C	20 - 110V AC/DC	5	5	**MC61CA55000 ***	**39000**	1
MC61C	88 - 264V AC/DC	1	1	**MC61CB11000 ***	**39000**	1
MC61C	88 - 264V AC/DC	5	5	**MC61CB55000 ***	**39000**	1

*** - availabe on request only**

Mini Motor Protection Relay#

Model	Thermal O/L Range (A)	Cat. No.	M.R.P. (₹) Per Unit	Std Pkg. (Nos.)
MPR 300	1 - 2.75	**MPR300BE010**	**5500**	1
MPR 300	2 - 5.5	**MPR301BE020**	**5500**	1
MPR 300	4 - 11	**MPR302BE040**	**5500**	1
MPR 300	8 - 22	**MPR303BE080**	**5500**	1
MPR 300	16 - 44	**MPR304BE160**	**5500**	1
MPR 300	32 - 88	**MPR305BE320**	**5500**	1

Single Pole Over Current or Earth Fault Relay

Model	Aux. Supply (V)	C.T. Secondary (A)	Cat. No.	M.R.P. (₹) Per Unit	Std Pkg. (Nos.)
MC12A	20 - 110V AC/DC	1A	**MC12AA10X00**	**9400**	1
MC12A	20 - 110V AC/DC	5A	**MC12AA50X00**	**9400**	1
MC12A	88 - 264V AC/DC	1A	**MC12AB10X00**	**9400**	1
MC12A	88 - 264V AC/DC	5A	**MC12AB50X00**	**9400**	1

Single Pole Sensitive Earth Fault Relay

Model	Aux. Supply (V)	C.T. Secondary (A)	Cat. No.	M.R.P. (₹) Per Unit	Std Pkg. (Nos.)
ME12A	20 - 110V AC/DC	1A	**ME12AA10000 ***	**9400**	1
ME12A	20 - 110V AC/DC	5A	**ME12AA50000 ***	**9400**	1
ME12A	88 - 264V AC/DC	1A	**ME12AB10000 ***	**9400**	1
ME12A	88 - 264V AC/DC	5A	**ME12AB50000 ***	**9400**	1

*** - availabe on request only**

Single Phase Under Voltage or Over Voltage Relay

Model	Aux. Supply (V)	Cat. No.	M.R.P. (₹) Per Unit	Std Pkg. (Nos.)
MV12A	20 - 110V AC/DC	**MV12AA00X00**	**9400**	1
MV12A	88 - 264V AC/DC	**MV12AB00X00**	**9400**	1

Instantaneous Earth Fault Relay

C.T. Rating 1A or 5A, Not Field Selectable

Model	C.T. Secondary (A)	Range	Cat. No.	M.R.P. (₹) Per Unit	Std Pkg. (Nos.)
SC14S	1	10 - 40 %	**MC14SX10100**	**8200**	1
SC14S	1	20 - 80 %	**MC14SX10200**	**8200**	1
SC14S	5	10 - 40 %	**MC14SX50100**	**8200**	1
SC14S	5	20 - 80 %	**MC14SX50200**	**8200**	1

Reverse Power Relay

Model	Aux Supply (V)	C.T. Secondary (A)	Cat. No.	M.R.P. (₹) Per Unit	Std Pkg. (Nos.)
MRP11	20 - 110V AC/DC	1A	**MRP11A10X00**	**21000**	1
MRP11	20 - 110V AC/DC	5A	**MRP11A50X00**	**21000**	1
MRP11	88 - 264V AC/DC	1A	**MRP11B10X00**	**21000**	1
MRP11	88 - 264V AC/DC	5A	**MRP11B50X00**	**21000**	1

APFC Relays

Model	Description	Cat. No.	M.R.P. (₹) Per Unit	Std Pkg. (Nos.)
RPM 8	Eight Stage APFC Relay	**MRPM0800000**	**13200**	1
RPM 14	Fourteen Stage APFC Relay	**MRPM1400000**	**16400**	1

With AUX. supply 240 AC
AUX. supply 110V AC available on request

DIGITAL PROTECTIVE RELAYS

Other Relays

Model	Description	Device Code	Cat. No.	M.R.P. (₹) Per Unit	Std Pkg (Nos.)
UFD34	Frequency Relay 20 - 110V	81, 27, 59, df/dt	**EFD34A00000**	**120000**	1
UDF34	Frequency Relay 88 - 264V	81, 27, 59, df/dt	**EFD34B00000**	**120000**	1
MM30	Motor Protection Relay 20 - 110V	49, 51LR, 46, 37, 50/51, 64, St No, ITR	**EMM30AXX00E**	**66000**	1
MM30	Motor Protection Relay 88 - 264V	49, 51LR, 46, 37, 50/51, 64, St No, ITR	**EMM30BXX00E**	**66000**	1
MM30W	Motor Protection Relay with Voltage Input 20 - 110V	12/14, 27/59, 47, 48, 55, 66, 68, 81 49, 51LR, 46, 37, 50/51, 64 St No, ITR	**EMM30WAX002 ***	**82000**	1
MM30W	Motor Protection Relay with Voltage Input 88 - 264V	12/14, 27/59, 47, 48, 55, 66, 68, 81 49, 51LR, 46, 37, 50/51, 64 St No, ITR	**EMM30WBX002 ***	**82000**	1
MG30	Generator Protection Relay For Generators with NGR (Neutral Grounding Resistor) 20 - 110V	21, 24, 27/59, 32, 37, 40, 46, 49, 50/27, 50V/51V, 51BF, 60FL, 64S, 68, 81	**EMG30AXX000**	**210000**	1
MG30	Generator Protection Relay For Generators with NGR (Neutral Grounding Resistor) 88 - 264V	21, 24, 27/59, 32, 37, 40, 46, 49, 50/27, 50V/51V, 51BF, 60FL, 64S, 68, 81	**EMG30BXX000**	**210000**	1
MG30-I	Generator Protection Relay For Generators without NGR (Neutral Grounding Resistor) 20 - 110V	21, 24, 27/59, 32, 37, 40, 46, 49, 50/27, 50V/51V, 51BF, 60FL, 64S, 68, 81	**EM30GIAXX00**	**210000**	1
MG30-I	Generator Protection Relay For Generators without NGR (Neutral Grounding Resistor) 88 - 264V	21, 24, 27/59, 32, 37, 40, 46, 49, 50/27, 50V/51V, 51BF, 60FL, 64S, 68, 81	**EM30GIBXX00**	**210000**	1
MD32G	Differential Relay for Generator 20 - 110V	87, 50/51, 87N	**ED32GAXX000 ***	**260000**	1
MD32G	Differential Relay for Generator 88 - 264V	87, 50/51, 87N	**ED32GBXX000 ***	**260000**	1
MD32T	Differential Relay for Transformer 20 - 110V, W/O ref	87RYB, 87N	**ED32TAXX000 ***	**220000**	1
MD32T	Differential Relay for Transformer 88 - 264V, W/O ref	87RYB, 87N	**ED32TBXX000 ***	**220000**	1
SPM21	Auto Synchronizing Relay 20 - 110V	25	**EPM21A00000 ***	**140000**	1
SPM21	Auto Synchronizing Relay 88 - 264V	25	**EPM21B00000 ***	**140000**	1
UM30	U/V Relay with Neutral Monitoring 20 - 110V	59, 81, 27	**EUM30A00000 ***	**120000**	1
UM30	U/V Relay with Neutral Monitoring 88 - 264V	59, 81, 27	**EUM30B00000 ***	**120000**	1

*** - availabe on request only**

ELECTRONIC METERING DEVICES

Single phase kWh meter with LCD display

New

Model EM101 + Class 1 Base mounting

Description	Cat. No.	M.R.P. (₹) Per Unit
1Ph LCD Meter 5-30A with out optical port	**WM101BC5DL0**	**1600**
1Ph LCD Meter 10-60A with out optical port	**WM101BC7DL0**	**1900**
1Ph LCD Meter 10-60A with optical port *	**WM101BC7DLP**	**2200**

*** - available on request only**

3 phase kWh meter flush mounting meter

New

Model Acrux, Nova & Geimini Class 1 (Flush Mounting) 96 x 96 mm

Description	Cat. No.	M.R.P. (₹) Per Unit
3Ph 4 W 240V 5A with RS485 (Dual source kWh meter) - Geimini	**WM30DFC3CRS**	**6000**
3Ph 4 W 240V 5A with RS485 (kWh meter with RS485 port) - Nova	**WM30KFC3CRS**	**4000**
3Ph 4 W 240V 1A (kWh meter counter type) - Acrux	**WM301FC1C10**	**5400**
3Ph 4 W 240V 5A (kWh meter counter type) - Acrux	**WM301FC3C10**	**5000**

3 phase 4 wire kWh base mounting meter

Model EM301B Class 1

Description	Cat. No.	M.R.P. (₹) Per Unit
3Ph 4 W kWh CT op base mtg 240V 1-2A	**WM301BC1C00**	**4700**
3Ph 4 W kWh CT op base mtg 240V 5 -10 A	**WM301BC3C00**	**4200**
3Ph 4 W kWh Dir base mtg 240V 5 -20 A Sleek	**WM301BC4D20**	**4200**
3Ph 4 W kWh Dir base mtg 240V 10 -40 A Sleek	**WM301BC6D20**	**4200**
3Ph 4 W kWh Dir base mtg 240V 10 - 60 A big body	**WM301BC7D10**	**4300**
3Ph 4 W kWh Dir base mtg 240V 50 -100 A big body	**WM301BC8D10**	**6100**

INTELLIGENT PANEL METER

MODEL QUASAR Class 1 (Flush Mounting) 96 x 96 mm

Description	Cat. No.	M.R.P. (₹) Per Unit
3PH, 4W IPM 240 V (L-N) 1 A Class 1 FM *	**WI300FC1300**	**8500**
3PH, 4W IPM 240 V (L-N) 5 A Class 1 FM	**WI300FC5300**	**8500**
3PH, 3W IPM 110 V (L-N) 1 A Class 1 FM *	**WI301FC1300**	**8500**
3PH, 3W IPM 110 V (L-N) 5 A Class 1 FM *	**WI301FC5300**	**8500**
3PH, 4W IPM 110 V (L-L) 1A Class 1 FM *	**WI300FB1300**	**8500**
3PH, 4W IPM 110 V (L-L) 5A Class 1 FM *	**WI300FB5300**	**8500**
3PH, 4W IPM 240 V (L-N) 1 A Class 1 FM with RS485 *	**WI300FC13RS**	**9500**
3PH, 4W IPM 240 V (L-N) 5 A Class 1 FM with RS485	**WI300FC53RS**	**9500**
3PH, 3W IPM 110 V (L-N) 1 A Class 1 FM with RS485 *	**WI301FC13RS**	**9500**
3PH, 3W IPM 110 V (L-N) 5 A Class 1 FM with RS485 *	**WI301FC53RS**	**9500**
3PH, 4W IPM 110 V (L-L) 1A Class 1 FM with RS485 *	**WI300FB13RS**	**9500**
3PH, 4W IPM 110 V (L-L) 5A Class 1 FM with RS485 *	**WI300FB53RS**	**9500**

*** - availabe on request only**

INTELLIGENT PANEL METER

New

MODEL QUASAR plus Class 0.5 (Flush Mounting) 96 x 96 mm

Description	Cat. No.	M.R.P. (₹) Per Unit
3PH, 4W IPM 240 V (L-N) 1 A Class 0.5 FM *	**WI300FC1200**	**10500**
3PH, 4W IPM 240 V (L-N) 5 A Class 0.5 FM	**WI300FC5200**	**10500**
3PH, 3W IPM 110 V (L-N) 1 A Class 0.5 FM *	**WI301FC1200**	**10500**
3PH, 3W IPM 110 V (L-N) 5 A Class 0.5 FM *	**WI301FC5200**	**10500**
3PH, 4W IPM 110 V (L-L) 1A Class 0.5 FM *	**WI300FB1200**	**10500**
3PH, 4W IPM 110 V (L-L) 5A Class 0.5 FM *	**WI300FB5200**	**10500**
3PH, 4W IPM 240 V (L-N) 1 A Class 0.5 FM with RS485 *	**WI300FC12RS**	**11500**
3PH, 4W IPM 240 V (L-N) 5 A Class 0.5 FM with RS485	**WI300FC52RS**	**11500**
3PH, 3W IPM 110 V (L-N) 1 A Class 0.5 FM with RS485 *	**WI301FC12RS**	**11500**
3PH, 3W IPM 110 V (L-N) 5 A Class 0.5 FM with RS485 *	**WI301FC52RS**	**11500**
3PH, 4W IPM 110 V (L-L) 1A Class 0.5 FM with RS485 *	**WI300FB12RS**	**11500**
3PH, 4W IPM 110 V (L-L) 5A Class 0.5 FM with RS485 *	**WI300FB52RS**	**11500**

*** - availabe on request only**

Trivector Meter Class 0.2

MODEL ER300P Class 0.2 (base Mounting)

Description	Cat. No.	M.R.P. (₹) Per Unit
3PH, 4W TVM 110V (L-L) 1 A Class 0.2 BM	**WR300BB1100**	**45000**
3PH, 4W TVM 110V (L-L) 5 A Class 0.2 BM *	**WR300BB5100**	**45000**
3PH, 4W TVM 110V (L-L) 1 A Class 0.2 BM RS485	**WR300BB11RS**	**48000**
3PH, 4W TVM 110V (L-L) 1 A Class 0.2 BM RS485	**WR300BB51RS**	**48000**

*** - availabe on request only**

Trivector Meter Class 0.5

MODEL ER300P Class 0.5 (base Mounting)

Description	Cat. No.	M.R.P. (₹) Per Unit
3PH, 3W TVM 110V (L-L) 1 A Class 0.5 BM *	**WR200BB1200**	**20000**
3PH, 3W TVM 110V (L-L) 5 A Class 0.5 BM *	**WR200BB5200**	**20000**
3PH, 4W TVM 110V (L-L) 1 A Class 0.5 BM	**WR300BB1200**	**20000**
3PH, 4W TVM 110V (L-L) 5 A Class 0.5 BM *	**WR300BB5200**	**20000**
3PH, 4W TVM 240V (L-L) 1 A Class 0.5 BM *	**WR300BC1200**	**20000**
3PH, 4W TVM 240V (L-L) 5 A Class 0.5 BM	**WR300BC5200**	**20000**
3PH, 3W TVM 110V (L-L) 1 A Class 0.5 BM RS485 *	**WR200BB12RS**	**24000**
3PH, 3W TVM 110V (L-L) 5 A Class 0.5 BM RS485 *	**WR200BB52RS**	**24000**
3PH, 4W TVM 110V (L-L) 1 A Class 0.5 BM RS485	**WR300BB12RS**	**24000**
3PH, 4W TVM 110V (L-L) 5 A Class 0.5 BM RS485 *	**WR300BB52RS**	**24000**
3PH, 4W TVM 240V (L-L) 1 A Cl 0.5 BM RS485 *	**WR300BC12RS**	**24000**
3PH, 4W TVM 240V (L-L) 5 A Cl 0.5 BM RS485	**WR300BC52RS**	**24000**

*** - availabe on request only**

Trivector Meter Class 1 whole current meter

New

MODEL ER300P Class 1 (base Mounting)

Description	Cat. No.	M.R.P. (₹) Per Unit
3PH, 4W TVM 240 V 10 - 60A BM *	**WR300BC6300**	**10000**
3PH, 4W TVM 240 V 10 - 60A BM RS485 *	**WR300BC63RS**	**12000**

*** - availabe on request only**

DISCONTINUED PRODUCTS

The following products have been discontinued effective 4-10-2010 :

Product Group	Range
Controlgear	MVX - Vacuum Contactors
	MNX - G MPCBs
	ML 0/1 Contactors
	MNX R - Relays
	MN Spares
	Bar Mounted Contactors
Changeover Switches	FGC 125A - 1000A
MCCB	DTH 100/200/250/400A

Switchgear Training Centres

Switchgear Training Centers at Pune, Lucknow & Coonoor conduct training programmes to assist engineers and professionals in developing a better understanding of electrical & automation products & solutions.

These training programmes impart knowledge on selection, installation, maintenance & testing of electrical & automation products. These programmes help to minimize costs, enhance safety, conserve energy and maximize productivity.

Over One Lakh participants have benefitted from these facilities so far.

Please contact any of the training centers for participation and detailed training programme schedule.

Pune
Larsen & Toubro Limited
Switchgear Training Centre
T-156/157, MIDC,
Bhosari, Pune:411 026.
Tel.: (020) 2712 0037 / 2712 0653
Fax.: (020) 2712 2933
E-mail :
STC-PUNE@LNTEBG.COM

Coonoor
Larsen & Toubro Limited
Switchgear Training Centre
Ooty-Coonoor Main Road,
Yellanahalli P.O.,The Nilgiris -643 243.
Tel.: (0423) 251 7107
Fax.: (0423) 251 7158
E-mail :
STC-COONOOR@LNTEBG.COM

Lucknow
Larsen & Toubro Limited
Switchgear Training Centre
C-6&7, UPSIDC,
P.O. Sarojini Nagar, Lucknow:226 008.
Tel.: (0522) 247 6110 / 099355 63239
Fax.: (0522) 247 6015
E-mail :
STC-LUCKNOW@LNTEBG.COM

Electrical Standard Products (ESP) Branch Offices:

REGISTERED OFFICE AND HEAD OFFICE
L&T House, Ballard Estate
P. O. Box 278
Mumbai 400 001
Tel: 022-67525656
Fax: 022-67525858
Website: www.Larsentoubro.com

ELECTRICAL STANDARD PRODUCTS (ESP)
501, Sakar Complex I
Opp. Gandhigram Rly. Station
Ashram Road
Ahmedabad 380 009
Tel: 079-66304007-11
Fax: 079-26580491 / 66304025
e-mail: esp-ahm@LNTEBG.com

38, Cubbon Road, P. O. Box 5098
Bangalore 560 001
Tel: 080-25020100
Fax: 080-25580525
e-mail: esp-blr@LNTEBG.com

131/1, Zone II
Maharana Pratap Nagar
Bhopal 462 011
Tel: 0755-4098721 / 7 / 8 / 9
Fax: 0755-2769264
e-mail: esp-bho@LNTEBG.com

Plot No. 559, Annapurna Complex
Lewis Road
Bhubaneswar 751 014
Tel: 0674-6451342, 2436696
Fax: 0674-2537309
e-mail: esp-bbi@LNTEBG.com

SCO 32, Sector 26-D
Madhya Marg, P. O. Box 14
Chandigarh 160 026
Tel: 0172-4646840, 4646853
Fax: 0172-4646802
e-mail: esp-chd@LNTEBG.com

10, Club House Road
Chennai 600 002
Tel: 044-28462072 / 4 / 5 / 2109
Fax: 044-28462102 / 3
e-mail: esp-maa@LNTEBG.com

67, Appuswamy Road
Post Bag 7156
Opp. Nirmala College
Coimbatore 641 045
Tel: 0422-2588120 / 1 / 5
Fax: 0422-2588148
e-mail: esp-cbe@LNTEBG.com

L&T House, Group MIG-5
Padmanabhpur
Durg 491 001
Tel: 0788-2213833 / 14 / 21 / 29
Fax: 0788-2213820

Khairasol, Degaul Avenue
Durgapur 713 212
Tel: 2559848, 2559849, 2559844
Fax: 0343-2553614
e-mail: esp-dgp@LNTEBG.com

Milanpur Road, Bamuni Maidan
Guwahati 781 021
Tel: 0361-2550568
Fax: 0361-2551308
e-mail: esp-gau@LNTEBG.com

II Floor, Vasantha Chambers
5-10-173, Fateh Maidan Road
Hyderabad 500004
Tel: 040-66720250
Fax: 040-23296468
e-mail: esp-hyd@LNTEBG.com

D-24, Prithvi Raj Road, C-Scheme
Jaipur 302 001
Tel: 0141-2385915 / 16 / 17 / 18
Fax: 0141-2373280
e-mail: esp-jai@LNTEBG.com

Akashdeep Plaza, 2nd Floor
P. O. Golmuri
Jamshedpur 831 003
Jharkhand
Tel: 0657-2340864 / 387
Fax: 0657-2341250
e-mail: esp-jam@LNTEBG.com

Skybright Bldg; M. G. Road
Ravipuram Junction, Ernakulam
Kochi 682 016
Tel: 0484-4409420 / 4 / 5 / 7
Fax: 0484-4409426
e-mail: esp-cok@LNTEBG.com

3-B, Shakespeare Sarani
Kolkata 700 071
Tel: 033-44002572 / 3 / 4
Fax: 033-22822589
e-mail: esp-ccu@LNTEBG.com

A28, Indira Nagar, Faizabad Road
Lucknow 226 016
Tel: 0522-2312904 / 5 / 6
Fax: 0522-2311671
e-mail: esp-Lko@LNTEBG.com

No: 73, Karpaga Nagar, 8th Street
K. Pudur
Madurai 625007
Tel: 0452-2537404, 2521068
Fax: 0452-2537552
e-mail: esp-mdu@LNTEBG.com

EBG North Wing Office-Level 2
Gate 7, Powai Campus
Mumbai 400 072
Tel: 022-67052874 / 2737 / 1156
Fax: 022-67051112
e-mail: esp-bom@LNTEBG.com

#12, Shivaji Nagar
North Ambazari Road
Nagpur 440 010
Tel: 0712-2260012 / 3
Fax: 0712-2260020 / 30
e-mail: esp-nag@LNTEBG.com

32, Shivaji Marg
P. O. Box 6223
New Delhi 110 015
Tel: 011-41419514 / 5 / 6
Fax: 011-41419600
e-mail: esp-del@LNTEBG.com

L&T House
P. O. Box 119
191/1, Dhole Patil Road
Pune 411 001
Tel: 020-26135048
Fax: 020-26124910, 26135048
e-mail: esp-pnq@LNTEBG.com

3rd Floor
Vishwakarma Chambers
Majura Gate, Ring Road
Surat 395 002
Tel: 0261-2473726
Fax: 0261-2477078
e-mail: esp-sur@LNTEBG.com

Radhadaya Complex
Old Padra Road
Near Charotar Society
Vadodara 390 015
Tel: 0265-6613610 / 1 / 2
Fax: 0265-2336184
e-mail: esp-bar@LNTEBG.com

48-8-16, Dwarakanagar
Visakhapatnam 530 016
Tel: 0891-6620411-2 / 3
Fax: 0891-6620416
e-mail: esp-viz@LNTEBG.com

Product improvement is a continuous process. For the latest information and special applications, please contact any of our offices listed here.

L&T SWITCHGEAR
SAFE & SURE

Electrical Standard Products
Larsen & Toubro Limited
Powai Campus, Mumbai 400 072
Customer Interaction Center (CIC)
BSNL / MTNL (toll free) : 1800 233 5858
Reliance (toll free) : 1800 200 5858
Tel : 022 6774 5858
Fax : 022 6774 5859
E-mail : cic@LNTEBG.com
Website : www.LNTEBG.com

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SP 50494 E